

CRWMS/M&O

Design Analysis Cover Sheet

Complete only applicable items.

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QA: L

Page: 1 Of: 24

2. DESIGN ANALYSIS TITLE			
ESF/Repository Interface Layout Coordinate Geometry Analysis			
3. DOCUMENT IDENTIFIER (Including Rev. No.)		4. REV. NO.	5. TOTAL PAGES
B00000000-01717-0200-00125 Rev 00		00	24
6. TOTAL ATTACHMENTS	7. ATTACHMENT NUMBERS - NO. OF PAGES IN EACH		8. SYSTEM ELEMENT
5	I-32, II-22, III-41, IV-39, V-26		MGDS
	Print Name	Signature	Date
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14. REMARKS			
TBV-176, concerning classification of Repository SSCs, is carried in this document (Page 3)			
TBV-081-MGD, concerning the configuration of certain portions of the ESF, is carried in this document (Page 3)			
TBV-079-DD, concerning the repository layout, is carried in this document. (Page 3)			

Design Analysis Revision Record*Complete only applicable items.*

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Page: 2 Of: 24

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B00000000-01717-0200-00125 Rev 00		00
5. Revision No.	6. Total Pages	7. Description of Revision
00	24, plus 160 in five attachments	Initial Issue

1. PURPOSE

The purpose of this analysis is to produce coordinate geometry calculations sufficient to establish the position of the conceptual Geologic Repository Operations Area (GROA) as it relates to the position of the Exploratory Studies Facility (ESF) planned exploratory drifting and the physical site. The focus of this analysis is to show the mathematical validity of the arrangement. The documentation which supports the development of the configuration can be found in References 5.3 and 5.4.

This analysis supports the production of the ESF / GROA Interface drawings which are used by the Project to demonstrate and control the physical interfaces between the ESF and Repository.

2. QUALITY ASSURANCE

Evaluations of repository Advanced Conceptual Design (ACD) design activities were performed in accordance with QAP-2-0. This activity was covered in the evaluation entitled "Repository Design Basis Accident and Design Analyses," BC0000000-01717-2200-00011 Rev 00 (Ref 5.1). The activity was found to be subject to QARD requirements, and the primary QAP utilized was 3-9. Refer to the evaluation for a complete listing of the applicable QAPs.

Classification, in accordance with QAP-2-3, of repository systems, structures, and components (SSCs) has not yet been performed. The repository underground openings are on the Q-List by direct inclusion. TBV-176 is assigned to this analysis until the appropriate repository classification analyses are performed. ESF openings have been classified as QA-2 by analysis (Ref 5.10).

The ESF configuration is not fixed, due to programmatic uncertainty and unresolved issues regarding access to, and exploration in, the Calico Hills unit. For these reasons, "To Be Verified" (TBV) numbers have been attached to this analysis, and TBV-081-MGD is assigned until the ESF configuration is fixed. These TBV numbers were acquired, and will be controlled, including removal, in accordance with NLP-3-15.

The repository configuration depicted in this analysis carries TBV-079-DD. This TBV was originally assigned to a repository design document, "Recommended Layout Concepts Report" (Ref 5.4). The TBV will be carried until repository License Application Design is completed using qualified data.

3. METHOD

Standard trigonometric calculations were employed to establish the location of various points in the GROA layout. All subsurface calculations are in metric units.

4. DESIGN INPUTS

4.1 Design Parameters

The primary inputs for this analysis are given below. For the upper, or primary repository block, the input is the location of a point at the lower end of the North Ramp which defines the end of the ramp and the beginning of the ESF Topopah Spring Main Drift. This point is described as the North Ramp Point of Tangency/Vertical Point of Intersection (PT/VPI). For the lower block, the input point (elevation only) is the point of intersection of the northern-most emplacement drift with the eastern-most of the two main drifts. The North Ramp PT/VPI is shown on Figures 7-1 and 7-2 as C8. The lower block point is shown on Figures 7-3 and 7-4 as H1. The upper block point information is taken from an ESF Design Analysis "ESF Layout Calculation," BABEAD000-01717-0200-00003 Rev 03 (Ref 5.5). The lower block point elevation can be found on ESF / GROA interface drawing BC0000000-01717-2100-89102 Rev 00. (Ref 5.9)

Point	Northing	Easting	Invert Elevation
North Ramp PT/VPI [C8]	234,087.742	171,313.778	1065.0
Lower Block Design Point [H1]	233702.003*	171563.932*	998.00

* Only the elevation is an input. The Coordinates were calculated below (Table 7-3).

The process of providing layout design input between ESF and GROA design efforts is as follows. The GROA design organization provides the ESF design team with approximate locations and general guidance on the location of the ESF ramps and main drift (Ref 5.2). The ESF design team uses that guidance to produce detailed

coordinate geometry information for use in the construction of the ESF. The GROA designers, in turn, use the precise point locations developed by the ESF team as points of reference from which to locate the conceptual GROA layout in the area (i.e.; the upper block) where close integration is most critical.

4.2 Criteria

A quantitative requirement governing the physical configuration of the GROA layout is found in 10 Code of Federal Regulations (CFR) 960 (Ref 5.8). In that body of regulation, under Subpart C - "Postclosure Guidelines," Section 960.4-2-5 (d) reads:

- (d) *Disqualifying Condition. The site shall be disqualified if site conditions do not allow all portions of the underground facility to be situated at least 200 meters below the directly overlying ground surface.*

Under Section 960.2 "Definitions," the Underground Facility is defined as follows:

"Underground Facility" means the underground structure and the rock required for support, including mined openings and backfill materials, but excluding shafts, boreholes, and their seals."

Though the term "Ramps" is not specifically called out, it has been assumed by the project that the term "Shaft" in the regulatory sense encompasses ramps.

All other "bounding criteria" are assumptions generated by the repository designers.

4.3 Assumptions

The assumptions which, taken together with the 200 meter cover criteria discussed above, bound and shape the GROA layout are listed below. The rationale for those assumptions which are cited as residing in the Controlled Design Assumptions (CDA) document can be found in that document. All controlled assumptions will require substantiation as discussed in Section 2.5 of the Controlled Design Assumption (CDA) Document. (Ref 5.6)

- 4.3.1 "Integrated rail transport will be used for subsurface transport of waste packages." This is Key Assumption 010 in the Controlled Design

Assumptions (CDA) document, Ref 5.6.

- 4.3.2 "Surface, subsurface, and waste package/Engineered Barrier System (EBS) designs will be robust and flexible and will accommodate a range of thermal loads from about 20 to about 100 Metric Tons Uranium (MTU)/acre." (Key 019, CDA)
- 4.3.3 "Repository horizon will be located mainly in the TSw2 geologic unit. Primary area is currently being used in design. Emplacement in the expansion areas will be evaluated." (Key 022, CDA)
- 4.3.4 "To the extent practical, repository openings shall be located to avoid faults that traverse a major portion of the potential emplacement area.
- "Avoidance is assumed to be adequate by using a 60-m offset from the main trace of a fault at the repository level. (Exception: 120-m offset should be used on the West side of the Ghost Dance Fault because the ESF Topopah Spring Main drift will be excavated before the Ghost Dance Fault characteristics are fully investigated.)
- "Where avoidance cannot be achieved, for Type I faults that intersect emplacement drifts, allow 15-m stand-off distance of emplaced waste packages from the edges of the fault zone." (Key 023, CDA)
- 4.3.5 "The primary method of tunnel excavation will be mechanical" (Key 027, CDA)
- 4.3.6 "Rail will be used for transporting supplies and personnel to the extent practical." (Key 030, CDA)
- 4.3.7 "Repository layout orientation:
- o Orientation of emplacement drifts will be at least 30 degrees from dominant joint orientations. Using the latest information on joint orientations, the emplacement drift orientation will generally fall between N70W and S75W.
 - o Orientation of maintainable access drifts, mains, ramps, etc. will be as needed to complement emplacement drift orientation, generally

forming intersections of 70-90 degrees where practicable." (Design Concept Subsurface (DCSS) 001, CDA)

4.3.8 "The crown of an underground excavation at any given location within the repository block will be: (1) no higher than the contact between the TSw1 and TSw2 thermal/mechanical units at that location, and (2) at least 5 m below rock strata containing significantly greater than 10% lithophysal cavities at that location." (DCSS 003, CDA)

4.3.9 "Drift excavation methods:

- o Primary: Tunnel Boring Machine (TBM)
- o Secondary: roadheader, special alcove miner, and drill-and-blast where mechanical methods are impractical." (DCSS 005, CDA)

4.3.10 "Maximum grade in ramps: $\leq 3\%$ to accommodate trains

"Maximum grade in mains: minimize, but $\leq 2\%$ in mains used for emplacement drift access.

"Maximum grade in emplacement drifts: minimize within 0.25 to 0.75% for drainage." (DCSS 009, CDA)

Note: The grade is assumed to be accomplished within each emplacement drift by having a high point at the mid-point of the drift from which the drift slopes gently downward to each end. This results in the elevation at the opposite ends of the drift being equal. Thus, it is assumed for the purposes of calculating elevations in the main drifts that the emplacement drifts are flat.

4.3.11 "Maximum allowable temperature within Calico Hills nonwelded unit (CHn): 115°C." (DCSS 025, CDA)

This thermal goal has been translated into a physical standoff distance (30 meters from the TSw3) which was used to define the boundary of the GROA layout. This is discussed in Ref 5.3, Chapter 8, p. 8-79.

- 4.3.12 "Where it is impractical to use mechanical methods [of excavation], drill and blast may be used to a limited degree primarily in non-emplacement areas of the repository. (CDA Key 028)
- 4.3.13 "Repository material handling equipment:
- o Supplies: Rail transport
 - o Excavated Rock: conveyor belt, or conveyor belt variation preferred when practical." (DCSS 010)

4.4 Codes and Standards

Code of Federal Regulations (CFR), Volume 10, *Energy*, Part 960, General Guidelines for the Recommendation of Sites for Nuclear Waste Repositories, December 6, 1984. [960.4-2-5 (d)]

5. REFERENCES

- 5.1 CRWMS M&O, QAP-2-0 Evaluation, "Repository Design Basis Accident and Design Analyses," BC0000000-01717-2200-00011 Rev. 00.
- 5.2 CRWMS M&O, Memo, Bhattacharyya to Kennedy, Design Input Transmittal, July 28, 1995.
- 5.3 CRWMS M&O, "Initial Summary Report for Repository/Waste Package Advanced Conceptual Design," B00000000-01717-5705-00015 Rev 00.
- 5.4 CRWMS M&O, Recommended Layout Concepts Report, BCAA00000-01717-5705-00001 Rev 00.
- 5.5 CRWMS M&O, "ESF Layout Calculation," BABEAD000-01717-0200-00003 Rev 03.
- 5.6 CRWMS M&O, "Controlled Design Assumptions Document," B00000000-01717-4600-00032 Rev 01.

- 5.7 CRWMS M&O, "Definition of the Potential Repository Block," BC0000000-01717-5705-00009 Rev 00.
- 5.8 Code of Federal Regulations (CFR), Volume 10, *Energy*, Part 960, General Guidelines for the Recommendation of Sites for Nuclear Waste Repositories, Federal Register, U.S. Government Printing Office, Washington, D.C., December 6, 1984.
- 5.9 ESF/GROA Interface Drawing: BC0000000-01717-2100-89102 Rev 00.
- 5.10 CRWMS M&O, "QA Classification Analysis of Main Access Openings (CI: BABEAD000)," BABEAD000-01717-2200-00002 Rev 01.

6. USE OF COMPUTER SOFTWARE

Computational Support Software, in the form of LOTUS 1-2-3 spreadsheets, was used to execute the trigonometric calculations. The spreadsheets were run in LOTUS 1-2-3 for Windows, Version 1, Release 1. The software is installed on a DUNN 386 computer running at 33 MHz. Complete listings of the cell contents of the spreadsheets are included at the end of the analysis.

INTERGRAPH, a widely used and accepted Computer Aided Drafting (CAD) program, was used to display lengths and azimuths of lines, and curve information, from a graphically developed repository layout. This information was used to develop the horizontal traverses.

A geologic model, Lynx Version 3.06 geologic modeling software (LYNX), running on a Silicon Graphics Indigo R4000 XS24Z workstation with IRIX 5.2 operating system, is used in the development of the ESF and GROA layouts. LYNX Version 3.06 was qualified for Quality Affecting Work (QAW), and has been assigned the CSCI number B00000000-01717-1200-30018. The LYNX geologic modeling software is appropriate for this application, and was run within its range of validation. The manner of use of this software will be described below as clarifying information. The use of the LYNX package, including its inputs, operation, and results, is more fully described in Reference 5.7.

7. DESIGN ANALYSIS

7.1 Development of the ESF / GROA layout

The development of the ESF / GROA layout is performed in the following manner:

- o Develop vertical and horizontal boundaries

Using drilling, tunneling, and outcrop information, the stratigraphy of the site is developed into a three-dimensional stratigraphic computer model. The model consists of various layers, also called "surfaces", or structure maps, which contain the extent of information of the vertical and lateral extent of a particular feature. Layers include the surface topography, the top of the water table, and the top and bottom of each significant stratigraphic unit in between these two. An important surface is the contact between the bottom of the Topopah Spring welded #1 (TSw1) unit and the top of the underlying Topopah Spring welded #2 (TSw2) unit. This contact is represented in the model by a single "surface" which can be graphically represented by an elevation contour map similar to a topographic map of the earth's surface. The three surfaces of most interest in the GROA layout are the Bottom TSw1-Top TSw2, the Bottom TSw2-Top TSw3, and a surface developed by subtracting 200 meters from the surface topography. Taken together, these three surfaces dictate the vertical extent of the GROA.

Using available information on faulting in the site area, a map is developed which shows the location of the fault traces when projected to the approximate elevation of the GROA layout. The information on this map provides, in most areas, the horizontal boundary of the GROA layout. This map, when combined with the surfaces described above, produces a three-dimensional volume within which the GROA can be placed with assurance that no siting criteria or assumptions will be violated. A description of the development of this volume is given in Reference 5.7.

- o Develop the layout within the defined volume

Once the volume is defined, the layout is graphically developed within the volume, accounting for various design limitations. Not all of the area indicated as usable by the geologic model is actually feasible to use for GROA

development. For example, long, thin areas, and areas at the edge that come to a sharp point are not feasible to develop using TBMs. And, while a minimum emplacement drift length has not been defined as such, there is rapidly diminishing utility in developing short emplacement drifts. Each drift, regardless of length, requires the same effort to launch and recover the TBM, and loses the same amount of length to thermal buffers intended to prevent the main drifts from heating up. The shortest drifts shown in the layout are approximately 300 meters in length.

The main access drifts and perimeter exhaust drifts define the shape of the GROA. In the upper emplacement block, these boundary drifts will be driven by TBM during the construction period prior to the start of waste emplacement operations. For the lower block, the boundary drifts will be developed concurrently with upper block emplacement and development operations. Because TBMs perform best in straight or gently curving configurations, the boundary drift layout is composed of straight segments connected by large radius curves. The layout utilizes the bulk of the space within the above described usable volume which can be reasonably developed by standard TBM technology. The horizontal limiting factors are fault standoffs of 60 meters (120 meters between the TS main drift and the west side of the Ghost Dance Fault.) This is true with one exception. The southwest portion of the upper block is limited by the 30 meter vertical standoff from the TSw3. (Assumption 4.3.11)

7.2 Coordinate Geometry Methodology

7.2.1 Horizontal Traverse

The above description of the layout development process is intended only to enlighten the reader on the methodology used to develop the layout. The development of coordinate geometry is done to "locate" the layout in three-dimensional space, and then ensure that the layout complies with the assumptions and criteria applicable to GROA layout. It is this coordinate geometry which is the focus of this analysis.

The point of beginning for the coordinate geometry traverse of the upper block is the North Ramp PT/VPI; Point C8 on Figure 7-1. This point's location is taken from Reference 5.5. (See the explanation above in section 4.1) The only other "set" point (elevation only) (i.e., a point whose position is input as opposed to being determined mathematically) is the point labeled as "H1" on Figure 7-3. This point serves as the

point of beginning for the lower block traverses.

The computer aided drafting program, INTERGRAPH, was used to draw the GROA layout within the physical constraints described above. In general, straight line segments are drawn generally parallel to the fault boundaries at the prescribed offset distances, and the straight line segments are connected together using tangent circular curves. The radius of the curves varies from about 152 meters up to about 305 meters. The resulting closed shape of line segments and tangent curves forms the boundary of the repository.

Because the Intergraph system is arranged such that all points are tied directly to the Nevada State Plane Coordinate System, it is possible to query the CAD program for the length and azimuth of any straight line segment. The point of beginning noted above was used, in conjunction with azimuth and length information obtained from the CAD package, to develop the horizontal traverses around the upper and lower blocks. The horizontal traverses used the line segment length and azimuth information to produce northing and easting coordinate information for the points which define the perimeter drifts. As described below, the coordinate information was then used to produce the vertical traverse information. Table 7-1 shows the horizontal traverse information around the upper block. Table 7-2 shows the same for the lower block, and Table 7-3 shows the result of a traverse from the upper block, down the north access ramp to the lower block, along the lower block from north to south, and back up to the upper block via the south access. The point designations on the tables coincide with the locations denoted on Figures 7-1 and 7-3. For clarity, the same point locations, connected by lines showing the direction of traverse, are shown in Figures 7-2 and 7-4 without the repository layout background. The traverse handled curves by moving from the first point of tangency (PT) encountered to the center of curvature and on to the second PT.

7.2.2 Vertical Traverse

As noted above, the point of beginning for the upper block is "C8," the North Ramp PT/VPI. The elevation of this point is assigned 1065.00 meters as shown in Ref 5.3. The point of beginning for the lower block traverse is the point labeled as "H1" on Figure 7-3. The elevation of this point is 998.00 meters. Elevations within each block are determined using the following logic. The grade of the TS Main Drift is set at 1.35% (Ref 5.5) along azimuth 183° (Ref 5.2). The grade of the emplacement drifts is assumed to be zero (assumption 4.3.10) in this analysis for the purposes of defining the

elevations of the perimeter drift and main drift. The azimuth of the emplacement drifts is 288° (ref . 5.3, p. 8-80). The upper block lies entirely on a plane (that is, the main drift and perimeter drift are all included in a single plane - no vertical curves). This allows calculation of the elevation of all points in these drifts if the orientation and value of the true gradient of the plane are known. This information can be found as described below. This process is also shown pictorially in Figure 7-5.

The azimuth of the strike of the plane (the orientation of lines on the plane having zero slope) is 288° . A known gradient and azimuth in the plane is defined by the TS Main Drift, which has azimuth 183° and gradient $+1.35\%$. (Ref 5.5). Since these two azimuths are not at a 90° angle to each other, however, it is known that 1.35% is not the true gradient. The true gradient will be found along the line whose azimuth is 90° from the strike azimuth. The azimuth of the true gradient, therefore, is:

$$288 - 90 = 198^\circ, \text{ or } 288 + 90 - 360 = 18^\circ$$

The true gradient can be found as follows:

first, determine the angle between the azimuth of the known gradient (183°) and the azimuth of the true gradient:

$$198 - 183 = 15^\circ;$$

then, divide the apparent gradient at azimuth 183 by the cosine of this angle:

$$1.35\% / \cos 15^\circ = 1.3976\%$$

1.3976% is, thus, the true gradient of the plane, and is located along azimuth 198° .

Figure 7-5 shows the geometry discussed above.

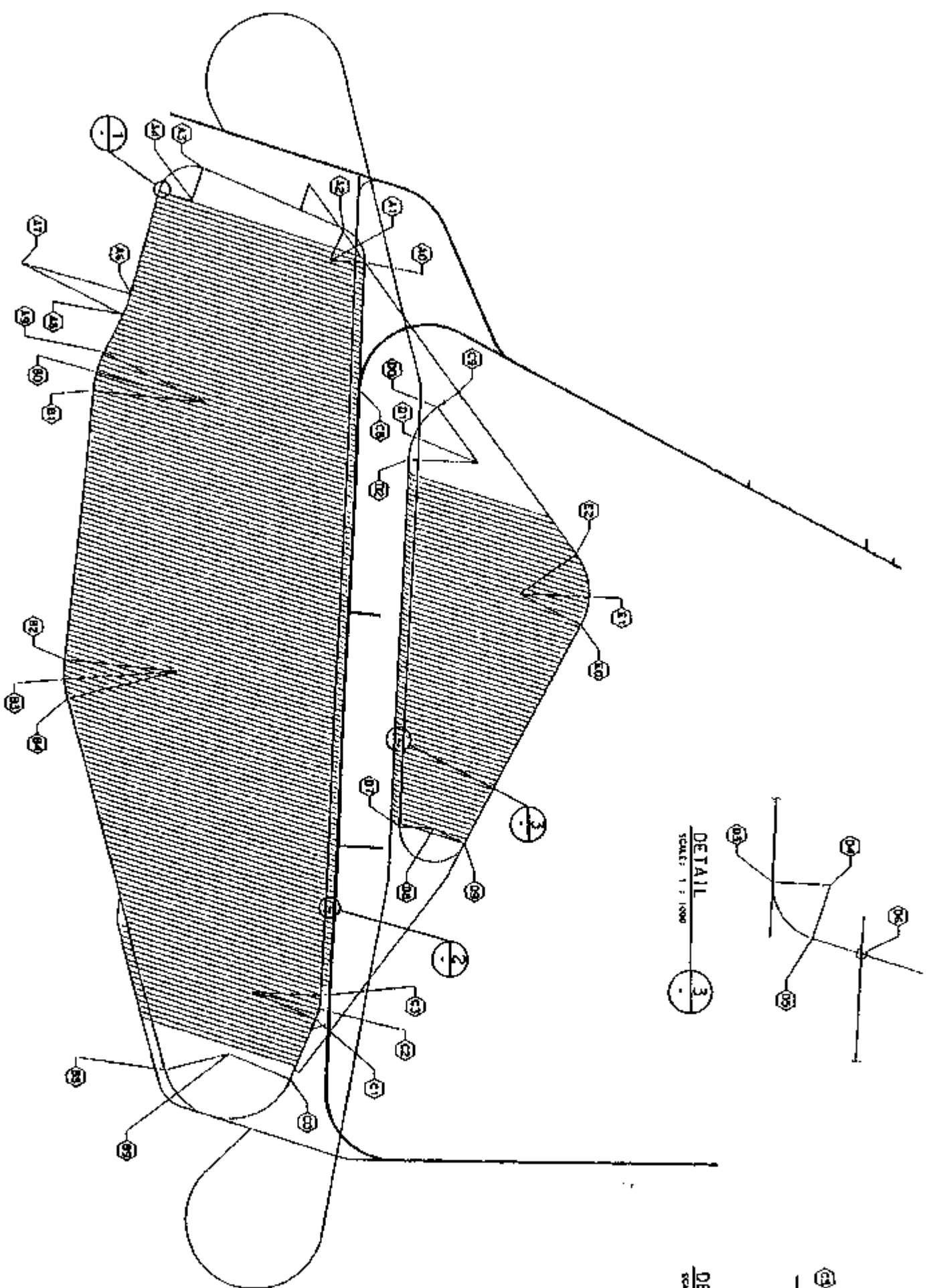
Since the blocks are planar, the elevation traverse consists simply of knowing the elevation of a single point on the plane, determining how far along the true gradient azimuth any other point is from the known point, multiplying the distance along the true gradient azimuth by the gradient ($.013976$), and adjusting the elevation by the result. The vertical traverse information is shown on Tables 7-4 and 7-5. Table 7-4 shows a traverse around the upper block perimeter. Table 7-5 is the same effort around the lower block.

DETAIL
SCALE: 1" = 1000'

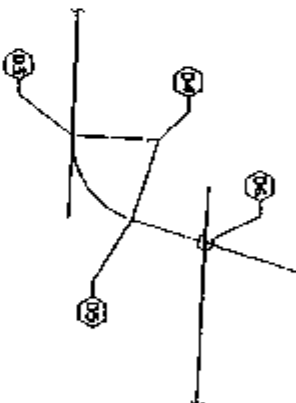


GRAPHIC SCALE
500' 1000'
1" = 10000'

PLAN
SCALE: 1" = 10 000'



DETAIL
SCALE: 1" = 1000'



DETAIL
SCALE: 1" = 1000'



NOTE FOR CONSTRUCTION

THIS DRAWING CONTAINS CONCEPTUAL INFORMATION AND IS INTENDED ONLY TO DEPICT THE PHYSICAL RELATIONSHIP OF THE ESF AND GROUND LAYOUTS. NO CONSTRUCTION INFORMATION SHOULD BE TAKEN FROM THIS DRAWING.

NOTE -

FOR VALUES OF POINTS SEE HAND TABULATION INTEGRATED LAYOUT SURVEY PLANNING DATA

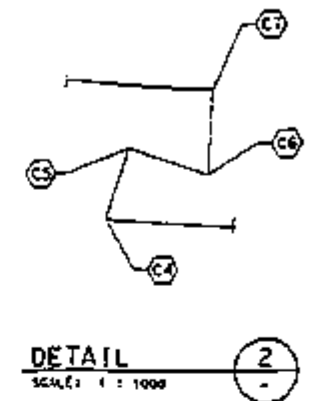
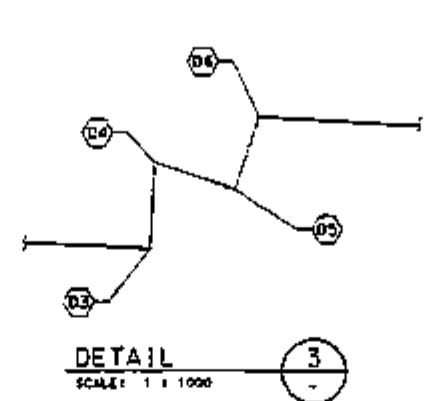
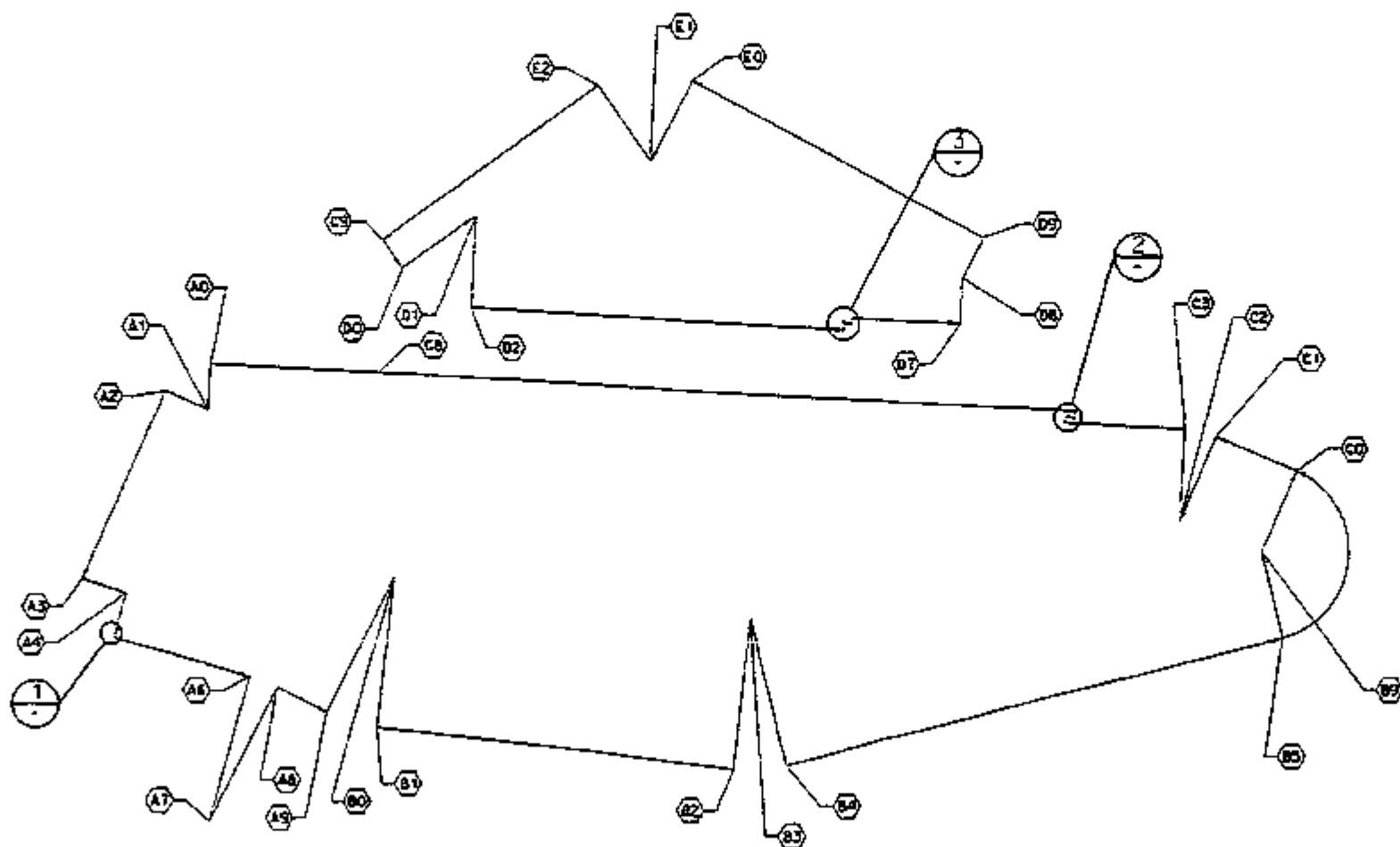
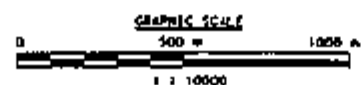
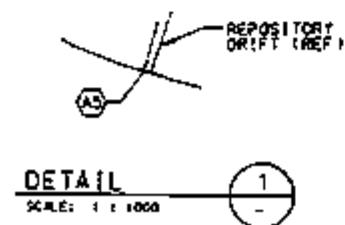
FIGURE 7-1

NOTE -
TO SEE TRAVERSE PLANS
WITHOUT BACKGROUND
SEE SK-994

ESF/Repository Interface Layout
SURVEY PLANNING DATA
PLAN - SHEET 1 OF 4

SK-391

CONCEPTUAL



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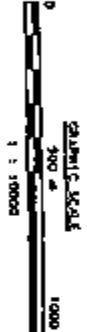
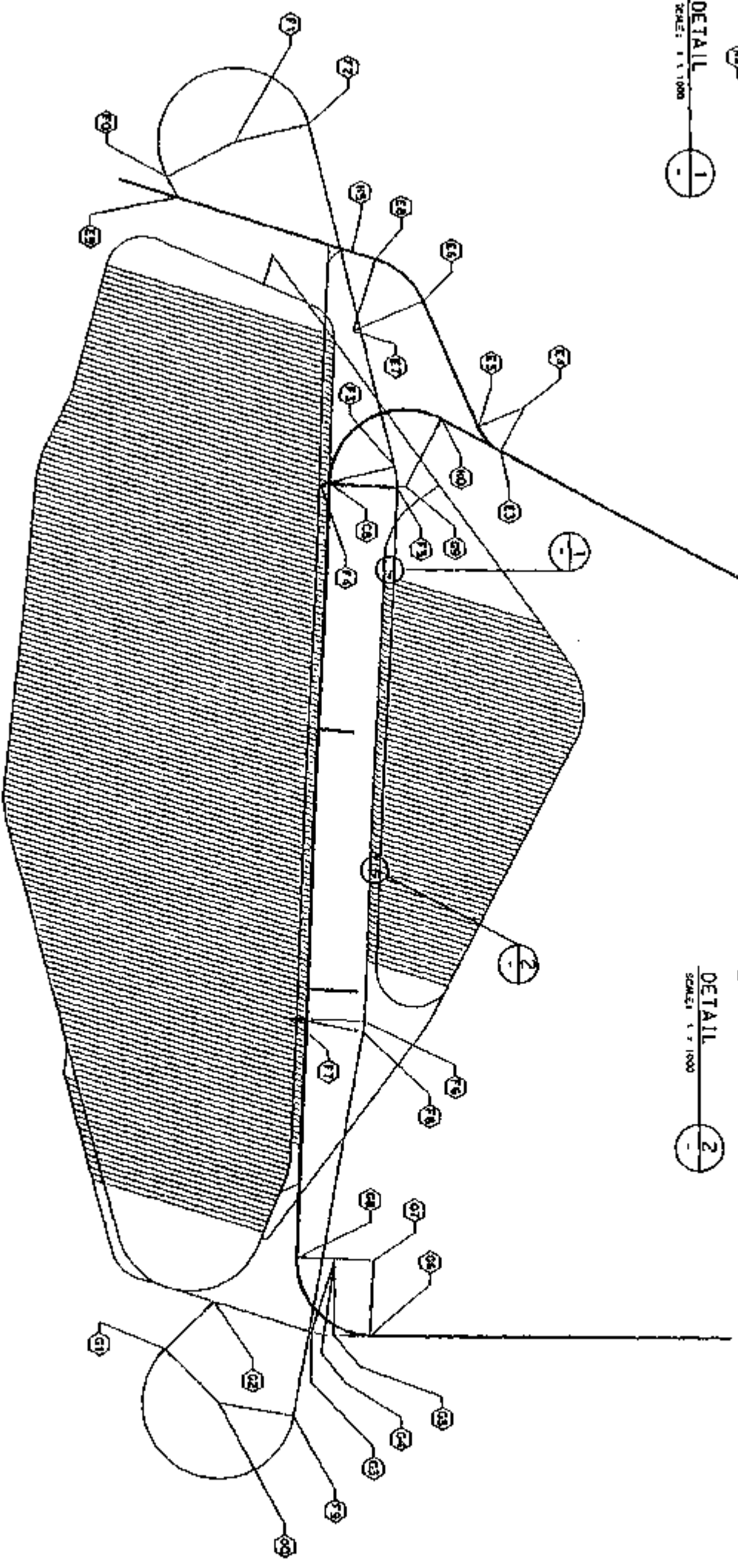
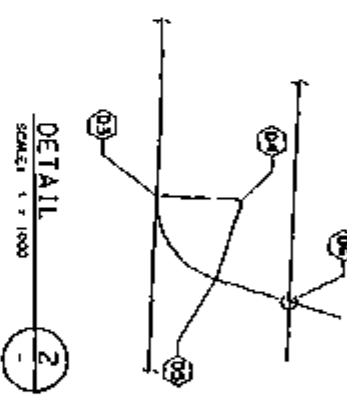
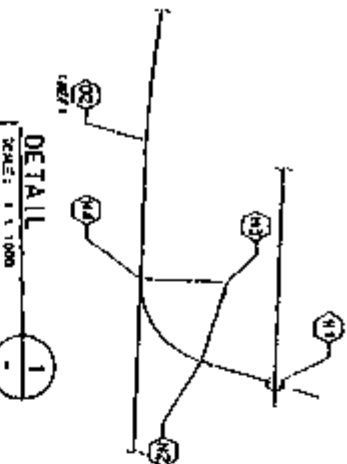
NOTE -
 FOR VALUES OF POINTS
 SEE NAME TABULATION
 INTEGRATED LAYOUT
 SURVEY PLANNING DATA

FIGURE 7-2

NOTE -
 TO SEE TRAVERSE PATHS
 WITH BACKGROUND
 SEE SK-391

ESF/Repository Interface Layout MANAGEMENT & OPERATING CONTRACTOR	
INTEGRATED LAYOUT SURVEY PLANNING DATA PLAN - SHEET 2 OF 4	
APPROVED BY:	DATE:
NOTED:	DATE:
SK-394	
ESF/Repository Interface Layout	

CONCEPTUAL



PLAN
SCALE 1 : 10 000

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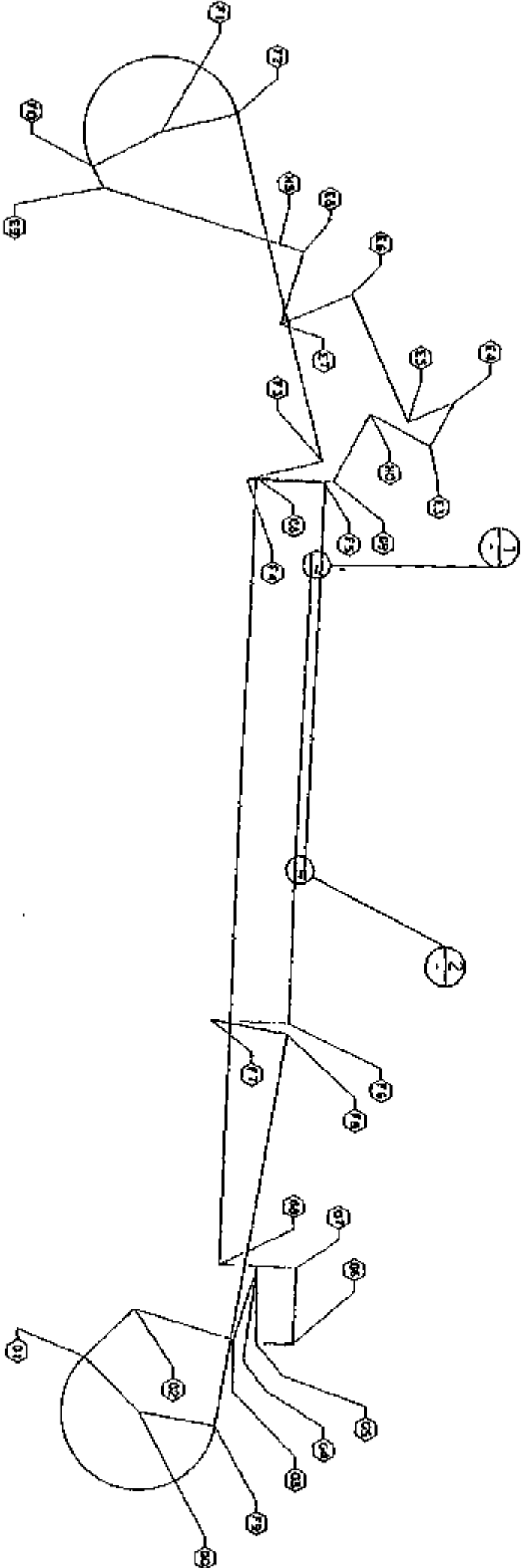
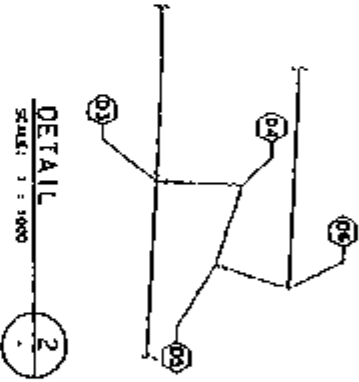
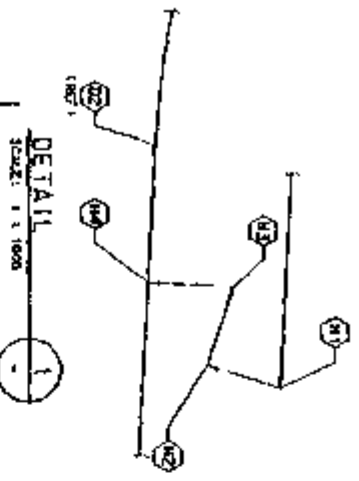
NOTE -
FOR VALUES OF POINTS
SEE ADJACENT PLANS
INTEGRATED LAYOUT
COORDINATE POINTS

NOTE -
TO SEE TRAVEL PATHS
REFER TO BATTERBOARD
SEE SK-296

FIGURE 7-3

INTEGRATED LAYOUT SURVEY PLANNING DATA PLAN - SHEET 3 OF 4	
SK-395	

CONCEPTUAL



PLAN
SCALE: 1" = 1000'

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NOTE -
FOR VALUES OF POINTS
SEE SURVEY PLANNING DATA
INTEGRATED LAYOUT
COORDINATE POINTS

NOTE -
TO SEE TRAVERSE POINTS
WITH BACKSIGHT
SEE SK-395

FIGURE 7-4

INTEGRATED LAYOUT
SURVEY PLANNING DATA
PLAN - SHEET 4 OF 4

SK-396

CONCEPTUAL

TABLE 7-1 - UPPER BLOCK HORIZONTAL TRAVERSE

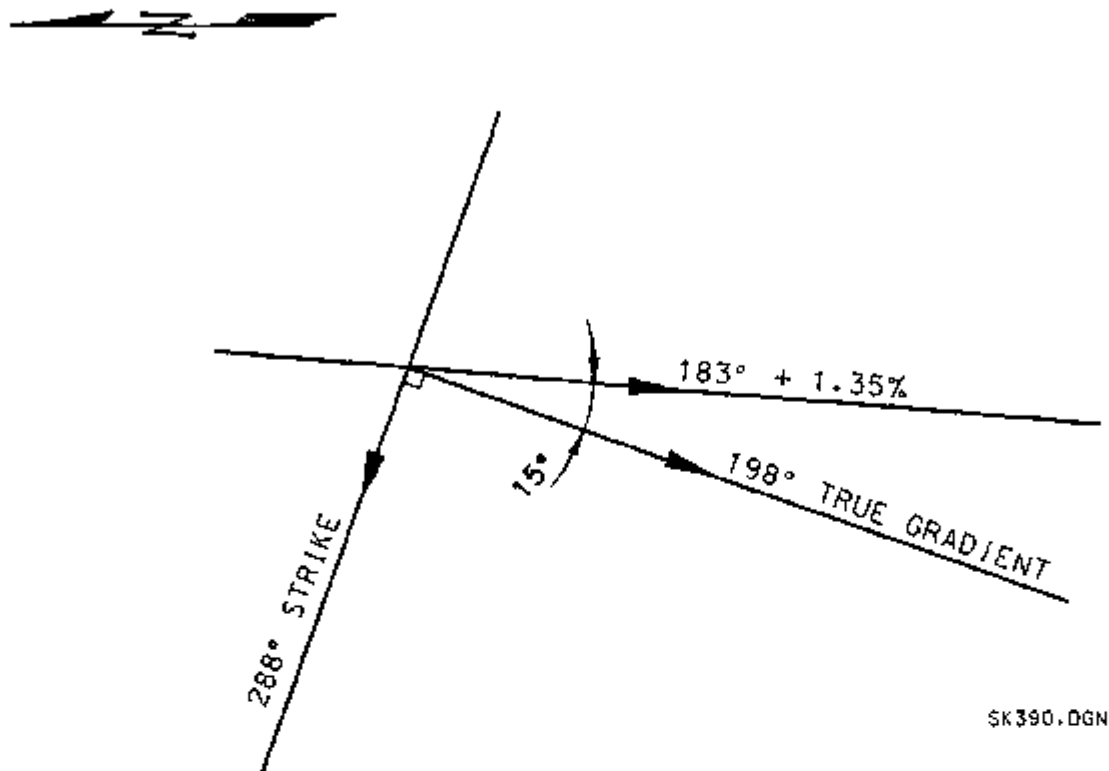
Enter Point Number	Enter 1st Northing	Enter 1st Easting	Enter Azimuth (Dec. Deg. from North)	Enter Horizontal Distance to Next Point			Read Subsequent Northings	Read Subsequent Eastings
INPUTS					NEXT POINT COORDS			
POINT	NORTH	EAST	AZIMUTH	HORIZ DIST	dN	dE	NORTH	EAST
C8 (NR PT/VP)	234087.742	171313.776						
A0	234853.122	171343.406	3.000000	586.158	585.360	29.890	234653.122	171343.406
A1	234681.104	171191.117	273.000300	182.600	7.862	-152.291	234681.104	171191.117
A2	234800.707	171252.495	23.733200	162.500	136.803	61.378	234600.707	171252.495
A3	235073.757	170631.457	293.733500	678.413	273.050	-621.038	235073.757	170631.457
A4	234828.721	170584.332	196.000100	152.600	-145.038	-47.126	234828.721	170584.332
A5	234888.197	170437.301	285.381800	152.500	40.478	-147.030	234888.197	170437.301
A6	234618.250	170310.737	165.611700	476.287	-452.947	-126.565	234618.250	170310.737
A7	234650.806	169829.183	285.611600	600.000	134.357	-481.554	234650.806	169829.183
A8	234425.888	170275.837	116.769000	500.000	-225.118	446.454	234425.888	170275.837
A9	234266.885	170181.579	206.750000	186.897	-186.703	-64.068	234266.885	170181.579
B0	234083.832	170638.018	118.783300	500.000	-225.153	446.437	234083.832	170638.018
B1	234087.406	170140.894	278.158900	500.000	53.573	-487.122	234087.406	170140.894
B2	232884.454	170011.270	186.158200	1209.916	-1202.962	-129.625	232884.454	170011.270
B3	232830.886	170508.382	96.150200	500.000	-53.586	487.122	232830.886	170508.382
B4	232708.919	170023.466	265.581200	600.000	-121.967	-484.896	232708.919	170023.466
B5	231048.881	170441.102	185.861100	1711.954	-1660.238	417.606	231048.881	170441.102
B6	231119.796	170723.627	75.881100	291.532	71.116	282.728	231119.796	170723.627
C0	231004.744	170991.696	113.243900	291.532	-115.052	267.969	231004.744	170991.696
C1	231274.135	171107.402	23.243900	293.189	289.382	115.708	231274.135	171107.402
C2	231394.505	170827.159	283.244500	305.000	120.370	-280.243	231394.505	170827.159
C3	231378.547	171131.741	92.999300	305.000	-16.869	304.852	231378.547	171131.741
C4	231777.403	171152.648	3.000000	389.404	386.837	20.903	231777.403	171152.648
C5	231770.634	171179.765	168.000500	22.228	-6.968	21.140	231770.634	171179.765
C6	231746.758	171168.059	197.999400	25.000	-23.776	-7.725	231746.758	171168.059
C7	231745.449	171191.025	63.001300	25.000	-1.309	24.066	231745.449	171191.025
C8 (CLOSE)	234087.740	171313.780	3.000000	2346.6060	2342.292	122.736	234087.740	171313.780

TABLE 7-2 - LOWER BLOCK HORIZONTAL TRAVERSE

Enter Point Number	Enter 1st Northing	Enter 1st Easting	Enter Azimuths (Dec. Deg. from North)	Enter Horizontal Distance to Next Point				Read Subsequent Northings	Read Subsequent Eastings
	Read Subsequent Northings	Read Subsequent Eastings							
INPUTS					NEXT POINT COORDS				
POINT	NORTH	EAST	AZIMUTH	HORIZ DIST	dN	dE	NORTH	EAST	
H1	233702.003	171563.932							
D8	232492.389	171500.538	183.000000	1211.2740	-1209.614	-63.394	232492.389	171500.538	
D7	232127.253	171481.402	183.000000	365.6370	-365.136	-19.136	232127.253	171481.402	
D8	232119.403	171631.197	93.000000	150.0000	-7.850	149.794	232119.403	171631.197	
D9	232049.263	171763.788	117.878600	150.0000	-70.140	132.591	232049.263	171763.788	
E0	233030.796	172283.007	27.878300	1110.4040	981.534	519.219	233030.796	172283.007	
E1	233173.412	172013.404	297.878200	305.0000	142.616	-269.603	233173.412	172013.404	
E2	233349.033	172262.768	54.843900	306.0000	175.621	249.364	233349.033	172262.768	
C9	234075.933	171750.831	324.843900	889.0800	726.900	-511.937	234075.933	171750.831	
D0	234009.660	171656.730	234.843900	115.0960	-86.273	-94.101	234009.660	171656.730	
D1	233760.296	171832.351	144.843900	305.0000	-249.364	175.621	233760.296	171832.351	
D2	233776.259	171527.769	273.000000	305.000000	15.983	-304.582	233776.259	171527.769	
H4	233733.960	171525.553	182.997600	42.3570	-42.299	-2.215	233733.960	171525.553	
H3	233732.651	171550.519	93.001300	25.0000	-1.309	24.966	233732.651	171550.519	
H2	233708.874	171542.793	198.000800	25.0000	-23.776	-7.726	233708.874	171542.793	
H1 (CLOSE)	233702.005	171563.933	108.000500	22.2280	-6.869	21.140	233702.005	171563.933	

TABLE 7-3 - HORIZONTAL TRAVERSE ALONG LOWER BLOCK ACCESS RAMPS

Enter Point Number	Enter 1st Northing	Enter 1st Easting	Enter Azimuth (Deg. Deg. from North)	Enter Horizontal Distance to Next Point				Read Subsequent Northings	Read Subsequent Easting
INPUTS					NEXT POINT COORDS				
POINT	NORTH	EAST	AZIMUTH	HORIZ DIST	dN	dE	NORTH	EAST	
C8 (NR PTNPI)	234087.742	171313.778	93.000300	305.0000	-15.984	304.582	234071.778	171818.360	
G9	234071.778	171818.360	28.974400	305.0000	288.825	147.746	234336.893	171786.106	
H0	234336.893	171786.106	118.974400	288.7840	-129.235	233.382	234206.368	171989.590	
E3	234206.368	171989.590	28.974100	200.0000	174.868	98.863	234384.336	172098.383	
E4	234384.336	172098.383	247.042400	200.0000	-78.010	-184.159	234306.328	171912.224	
E5	234306.328	171912.224	337.042900	548.3840	504.821	-213.885	234611.247	171888.339	
E6	234611.247	171888.339	247.186200	305.0000	-118.280	-281.140	234682.987	171417.200	
E7	234682.987	171417.200	18.000000	305.0000	290.072	94.250	234983.058	171511.450	
E8	234983.058	171511.450	288.000000	98.5250	30.755	-94.884	235013.814	171418.788	
H3	235013.814	171418.788	288.000000	726.9970	224.654	-691.415	238238.458	170725.361	
E9	238238.458	170725.361	303.000000	84.802000	84.489	-43.039	235322.938	170882.341	
F0	235322.938	170882.341	83.000200	305.0000	138.456	271.737	235446.1404	170954.089	
F1	235446.1404	170954.089	76.788600	305.0000	68.819	298.901	238531.223	171251.500	
F2	238531.223	171251.500	186.788800	1416.8510	-1379.229	324.338	234181.894	171875.338	
F3	234181.894	171875.338	288.788400	305.0000	-69.821	-286.901	234082.173	171278.437	
F4	234082.173	171278.437	93.000000	305.0000	-15.982	304.582	234068.211	171583.019	
F5	234068.211	171583.019	183.000000	364.7070	-364.207	-19.087	233702.003	171883.932	
H1	233702.003	171883.932	288.000800	22.2280	8.889	-21.140	233708.872	171542.792	
H2	233708.872	171542.792	18.000600	25.0000	23.776	7.728	233732.649	171550.518	
H3	233732.649	171550.518	273.001300	25.0000	1.308	-24.968	233733.958	171528.582	
H4	233733.958	171528.582	183.000000	1211.2740	-1209.814	-83.384	232524.344	171482.188	
D3	232524.344	171482.188	183.000000	813.2980	-812.457	-32.088	231811.888	171430.080	
F6	231811.888	171430.080	273.000000	305.0000	15.963	-304.582	231827.849	171125.478	
F7	231827.849	171125.478	100.742800	305.0000	-58.852	288.854	231870.997	171425.133	
F8	231870.997	171425.133	190.741000	1980.9880	-1959.299	-294.649	230017.898	171130.483	
F9	230017.898	171130.483	280.741100	304.9000	58.806	-289.480	230374.504	170831.024	
G0	230374.504	170831.024	316.021200	304.8000	219.333	-211.851	230593.837	170819.373	
G1	230593.837	170819.373	48.020900	272.9870	189.840	188.418	230783.377	170815.791	
G2	230783.377	170815.791	106.000000	409.6000	-128.874	389.563	230858.804	171208.344	
G3	230858.804	171208.344	18.000000	305.0000	290.072	94.250	230948.878	171299.584	
G4	230948.878	171299.584	181.000000	305.0000	-304.954	-5.323	230841.929	171294.271	
G5	230841.929	171294.271	90.827100	144.2630	-1.579	144.254	230840.344	171438.325	
G6	230840.344	171438.325	3.000000	305.0000	304.582	15.863	230844.028	171454.487	
G7	230844.028	171454.487	273.000000	305.0000	15.963	-304.582	230868.888	171148.905	
G8	230868.888	171148.905	3.000000	3121.1420	3126.951	182.872	234087.739	171313.777	
C8 (CLOSE)	234087.739	171313.777							



AZIMUTH OF TRUE GRADIENT = $90^\circ \pm$ THE STRIKE AZIMUTH
 $288 - 90 = 198^\circ$
TRUE GRADIENT = $1.35\% \div \text{COSINE } 15^\circ = 1.3976\%$

FIGURE 7-5

TABLE 7-4 - UPPER BLOCK VERTICAL TRAVERSE

COORDINATE CHECKER WORKSHEET

CALCULATES DISTANCE, AZIMUTH, & SLOPE (GRADE) BETWEEN GIVEN SETS OF COORDINATES

Column A Enter PL #	Column C Enter Northing	Column E Enter Easting	Column G Read North Dist.	Column H Read Slope Dist.	Column I Read Slope (%)	Pin- Shoe-	1 570735 + 712309	Column AC Read Map Azimuth (Dec. Orig.)
INPUTS								
POINT	NORTH	EAST	ELEVATION	dLEV	dH	dL	dLEV	MAP AZIMUTH (RAD'S)
POINT	NORTH	EAST	ELEVATION	dLEV	dH	dL	dLEV	MAP AZIMUTH (DEC. DEG.)
C1 (NR PIVOT)	234087.742	171313.778	1085.000	-7.643	385.369	28.630	-7.643	3.000
A0	234055.122	171343.488	1087.357	0.352	7.962	-132.291	0.352	4.000
A1	234081.104	171191.117	1087.808	-2.121	139.965	81.278	-2.121	1.000
A2	234000.707	171282.486	1086.788	-0.947	373.580	-821.828	-0.947	4.000
A3	234073.787	170841.467	1084.841	2.151	-145.038	-47.126	2.151	3.000
A4	234028.721	170684.932	1085.872	0.967	40.476	-147.851	0.967	4.000
A5	234086.187	170457.561	1087.068	6.567	-452.947	-126.584	6.567	3.000
A6	234018.289	170310.737	1083.838	0.291	194.857	-141.554	0.291	4.000
A7	234050.808	169828.183	1083.927	1.064	-225.179	446.484	1.064	2.000
A8	234026.609	170275.637	1084.982	2.579	-186.703	-94.868	2.579	3.000
A9	234050.905	170181.579	1087.670	1.965	-225.153	448.437	1.965	2.000
B8	234033.633	170038.076	1088.035	1.436	-83.558	487.122	1.436	3.000
B1	234047.406	170140.894	1078.079	16.549	-1289.862	-128.525	16.549	4.000
B2	232884.854	170011.289	1088.518	-1.436	-83.558	487.122	-1.436	2.000
B3	232836.886	170808.382	1085.184	3.718	-121.887	-484.886	3.718	3.000
B4	232708.919	170025.498	1085.900	20.284	-1869.238	417.605	20.284	4.000
B5	231048.681	170441.102	1189.164	-2.166	71.115	282.725	-2.166	1.000
B8	231119.798	170723.827	1186.909	0.372	-115.052	287.899	0.372	2.000
C0	234084.744	170891.694	1187.370	-4.080	289.382	178.708	-4.080	4.000
C1	231274.136	171107.402	1183.290	-0.780	129.279	-288.243	-0.780	3.000
C2	231284.566	170827.158	1182.900	-1.103	-16.958	304.582	-1.103	2.000
C3	231378.547	171131.741	1181.787	-0.380	388.857	28.903	-0.380	1.000
C4	231771.493	171152.944	1086.408	0.000	-6.888	21.140	0.000	2.000
C8	231778.634	171173.784	1086.405	0.349	-23.776	-7.725	0.349	3.000
C6	231748.768	171186.053	1086.754	-0.080	1.388	24.946	-0.080	2.000
C7	231745.448	171191.025	1086.444	-31.854	2342.283	122.753	-31.854	1.000
C8 (CLOSE)	234087.742	171313.778	1085.000					3.000

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TABLE 7-5 - LOWER BLOCK VERTICAL TRAVERSE

COORDINATE CHECKER WORKSHEET

CALCULATES DISTANCE, AZIMUTH, & SLOPE (GRADE) BETWEEN GIVEN SETS OF COORDINATES

Column A Enter PL #	Column C Enter Northing	Column E Enter Easting	Column G Read Horiz. Dist.	Column S Read Slope Dist.	Column U Read Slope (%)	PC=	PT=	Column AD Read Map Azimuth (Dec. Deg.)
							1570796 4 712589	
RESULTS								
POINT	NORTH	EAST	ELEVATION	dLEV	dH	dE	dLEV	MAP AZIMUTH (DEC DEG.)
H1	232702.000	171551.902	908.000					
D0	232402.301	171500.540	1014.362	16.332	-1208.612	-63.368	19.362	1211.272
D7	232127.250	171481.404	1019.289	4.936	-265.128	-19.136	4.936	365.637
D8	232119.400	171431.100	1018.746	-0.843	-7.950	149.794	-9.543	160.008
D9	232049.296	171763.799	1019.906	0.380	-70.140	132.691	0.380	160.000
B0	232090.799	172283.009	1083.815	-15.289	867.534	519.219	-15.289	2110.404
B1	232173.414	172913.404	1032.086	-0.721	142.816	-265.403	-0.721	305.080
B2	232349.836	172292.776	899.672	-3.411	175.021	249.284	-3.411	205.090
C9	234075.836	171750.839	882.223	-7.451	728.900	-511.837	-7.451	889.090
D9	234008.882	171656.732	883.510	1.287	-98.273	94.191	1.287	115.096
D1	233780.299	171622.363	886.669	2.556	-248.394	175.821	2.556	385.090
D2	233776.281	171621.771	897.189	1.103	15.883	-304.562	1.103	385.080
H4	233738.582	171626.556	897.741	0.572	-42.239	2.218	0.572	42.357
H5	233732.853	171650.521	897.851	-0.083	-1.389	24.900	-0.083	25.000
H2	233708.676	171642.795	898.908	0.349	23.776	-7.720	0.349	25.000
H1 (CLOSE)	232702.000	171551.901	908.000	0.000	-0.800	21.140	0.000	22.228

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 Coordinate Geometry Analysis
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8. CONCLUSIONS

It is concluded from this analysis that the graphically developed configurations of the upper and lower repository blocks are mathematically valid as they are shown in the included figures. This configuration will be used as the basis for the currently ongoing revision of the ESF/GROA Interface drawings.

9. ATTACHMENTS

The balance of this analysis contains the cell contents printouts of the traverse spreadsheets.

There are five attachments to this analysis, as listed below.

Attachment I - Cell Contents of Spreadsheet Used to Generate Table 7-1

Attachment II - Cell Contents of Spreadsheet Used to Generate Table 7-2

Attachment III - Cell Contents of Spreadsheet Used to Generate Table 7-3

Attachment IV - Cell Contents of Spreadsheet Used to Generate Table 7-4

Attachment V - Cell Contents of Spreadsheet Used to Generate Table 7-5

Attachment I
Cell Contents of Spreadsheet
used to
Generate Table 7-1

(Includes copy of the table with rows/columns labeled)

A:A1: {Page I/1} UPBLKTRV.WK1
A:E1: {Page Arial MT14} TABLE 7-1 - UPPER BLOCK HORIZONTAL TRAVERSE
A:A2: {Page} _
A:B2: [W1] '
A:C2: _
A:D2: [W1] '
A:E2: _
A:F2: [W1] '
A:G2: _
A:H2: [W1] '
A:I2: _
A:J2: [W1] '
A:O2: _
A:P2: [W1] '
A:Q2: _
A:R2: [W1] '
A:S2: _
A:T2: [W1] '
A:U2: _
A:V2: [W1] '
A:A3: {Page} ^Enter
A:B3: [W1] \\
A:C3: ^Enter
A:D3: [W1] \\
A:E3: ^Enter
A:F3: [W1] \\
A:G3: ^Enter
A:H3: [W1] \\
A:I3: ^Enter
A:J3: [W1] \\
A:N3: [W1] \\
A:O3: '
A:P3: [W1] \\
A:Q3: '
A:R3: [W1] \\
A:S3: '
A:T3: [W1] \\
A:U3: '
A:V3: [W1] \\
A:A4: {Page} ^Point
A:B4: [W1] \\
A:C4: ^1st Northing

A:D4: [W1] \\
A:E4: ^1st Easting
A:F4: [W1] \\
A:G4: ^Azimuths
A:H4: [W1] \\
A:I4: ^Horizontal
A:J4: [W1] \\
A:N4: [W1] \\
A:P4: [W1] \\
A:R4: [W1] \\
A:S4: ^Read
A:T4: [W1] \\
A:U4: ^Read
A:V4: [W1] \\
A:A5: {Page} ^Number
A:B5: [W1] \\
A:C5: \-
A:D5: [W1] \\
A:E5: \-
A:F5: [W1] \\
A:G5: ^ (Dec. Deg.
A:H5: [W1] \\
A:I5: ^Distance
A:J5: [W1] \\
A:N5: [W1] \\
A:P5: [W1] \\
A:R5: [W1] \\
A:S5: ^Subsequent
A:T5: [W1] \\
A:U5: ^Subsequent
A:V5: [W1] \\
A:B6: [W1] \\
A:C6: ^Read
A:D6: [W1] \\
A:E6: ^Read
A:F6: [W1] \\
A:G6: ^from
A:H6: [W1] \\
A:I6: ^to
A:J6: [W1] \\
A:N6: [W1] \\
A:P6: [W1] \\

A:R6: [W1] \\
A:S6: ^Northings
A:T6: [W1] \\
A:U6: ^Easting
A:V6: [W1] \\
A:B7: [W1] \\
A:C7: ^Subsequent
A:D7: [W1] \\
A:E7: ^Subsequent
A:F7: [W1] \\
A:G7: ^North)
A:H7: [W1] \\
A:I7: ^Next Point
A:J7: [W1] \\
A:N7: [W1] \\
A:P7: [W1] \\
A:R7: [W1] \\
A:T7: [W1] \\
A:V7: [W1] \\
A:A8: {Page} _
A:B8: [W1] \\
A:C8: ^Northings
A:D8: [W1] \\
A:E8: ^Easting
A:F8: [W1] \\
A:G8: _
A:H8: [W1] \\
A:I8: _
A:J8: [W1] \\
A:N8: [W1] \\
A:O8: _
A:P8: [W1] \\
A:Q8: _
A:R8: [W1] \\
A:S8: _
A:T8: [W1] \\
A:U8: _
A:V8: [W1] \\
A:A9: {Page} '
A:C10: "INPUTS
A:S10: ^NEXT POINT COORDS
A:A11: {Page} \=

A:B11: [W1] '=
A:C11: \=
A:D11: [W1] '=
A:E11: \=
A:F11: [W1] '=
A:G11: \=
A:H11: [W1] '=
A:I11: \=
A:J11: [W1] '=
A:R11: [W1] '=
A:S11: \=
A:T11: [W1] '=
A:U11: \=
A:V11: [W1] '=
A:A12: {Page} ^POINT
A:C12: ^NORTH
A:E12: ^EAST
A:G12: ^AZIMUTH
A:I12: ^HORIZ DIST
A:J12: [W1] '{
A:O12: ^dN
A:Q12: ^dE
A:R12: [W1] '{
A:S12: ^NORTH
A:U12: ^EAST
A:A13: {Page} \=
A:B13: [W1] '=
A:C13: \=
A:D13: [W1] '=
A:E13: \=
A:F13: [W1] '=
A:G13: \=
A:H13: [W1] '=
A:I13: \=
A:J13: [W1] '=
A:K13: [W1] \=
A:L13: [W1] '=
A:M13: [W1] \=
A:N13: [W1] '=
A:O13: \=
A:P13: [W1] '=
A:Q13: \=

A:R13: [W1] '='
A:S13: \=
A:T13: [W1] '='
A:U13: \=
A:V13: [W1] '='
A:A15: {Page} '
A:C15: '
A:E15: '
A:A16: {Page} *
A:B16: [W1] '
A:C16: (F4) *
A:D16: (F4) [W1] '
A:E16: (F4) *
A:F16: (F4) [W1] '
A:G16: (F6) '
A:H16: (F4) [W1] '
A:I16: (F4) '
A:J16: (F4) [W1] '
A:K16: (F4) [W1] '
A:L16: (F2) [W1] '
A:M16: (F0) [W1] '
A:N16: (F2) [W1] '
A:O16: (F4) '
A:P16: (F4) [W1] '
A:Q16: (F4) '
A:R16: (F2) [W1] '
A:S16: (F4) '
A:T16: (F4) [W1] '
A:U16: (F4) '
A:V16: (F4) [W1] '
A:W16: [W1] '
A:A17: {Page} 'C8 (NR PT/VPI)
A:B17: [W1] '
A:C17: (F3) 234087.742
A:D17: (F3) [W1] '
A:E17: (F3) 171313.778
A:F17: (F4) [W1] '
A:H17: (F4) [W1] '
A:J17: (F4) [W1] '
A:L17: (F2) [W1] '
A:N17: (F2) [W1] '
A:P17: (F3) [W1] '

A:R17: (F3) [W1] '
A:T17: (F3) [W1] '
A:V17: (F4) [W1] '
A:A18: {Page} *
A:B18: [W1] '
A:C18: (F3) *
A:D18: (F3) [W1] '
A:E18: (F3) *
A:F18: (F4) [W1] '
A:G18: (F6) 3
A:H18: (F4) [W1] '
A:I18: (F3) 566.156
A:J18: (F4) [W1] '
A:K18: (F4) [W1] @ROUND(G18*@PI/180,6)
A:L18: (F2) [W1] '
A:M18: (F0) [W1] @IF(G18>=0#AND#G18<180,@IF(G18<90,1,2),@IF(G18<270,3,4))
A:N18: (F2) [W1] '
A:O18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@COS(K18),-I18*@COS(@PI-K18)),@IF(M18=3,
-I18*@COS(K18-@PI),I18*@COS(2*@PI-K18)))
A:P18: (F3) [W1] '
A:Q18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@SIN(K18),I18*@SIN(@PI-K18)),@IF(M18=3,-I
18*@SIN(K18-@PI),-I18*@SIN(2*@PI-K18)))
A:R18: (F3) [W1] '
A:S18: (F3) +C17+O18
A:T18: (F3) [W1] '
A:U18: (F3) +E17+Q18
A:V18: (F4) [W1] '
A:A19: {Page} 'A0
A:B19: [W1] '
A:C19: (F3) +S18
A:D19: (F3) [W1] '
A:E19: (F3) +U18
A:F19: (F4) [W1] '
A:H19: (F4) [W1] '
A:J19: (F4) [W1] '
A:L19: (F2) [W1] '
A:N19: (F2) [W1] '
A:P19: (F3) [W1] '
A:R19: (F3) [W1] '
A:T19: (F3) [W1] '

A:V19: (F4) [W1] '
A:A20: {Page} *
A:B20: [W1] '
A:C20: (F3) *
A:D20: (F3) [W1] '
A:E20: (F3) *
A:F20: (F4) [W1] '
A:G20: (F6) 273.0003
A:H20: (F4) [W1] '
A:I20: (F3) 152.5
A:J20: (F4) [W1] '
A:K20: (F4) [W1] @ROUND(G20*@PI/180,6)
A:L20: (F2) [W1] '
A:M20: (F0) [W1] @IF(G20>=0#AND#G20<180,@IF(G20<90,1,2),@IF(G20<270,3,4))
A:N20: (F2) [W1] '
A:O20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@COS(K20),-I20*@COS(@PI-K20)),@IF(M20=3,
-I20*@COS(K20-@PI),I20*@COS(2*@PI-K20)))
A:P20: (F3) [W1] '
A:Q20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@SIN(K20),I20*@SIN(@PI-K20)),@IF(M20=3,-I
20*@SIN(K20-@PI),-I20*@SIN(2*@PI-K20)))
A:R20: (F3) [W1] '
A:S20: (F3) +C19+O20
A:T20: (F3) [W1] '
A:U20: (F3) +E19+Q20
A:V20: (F4) [W1] '
A:A21: {Page} 'A1
A:B21: [W1] '
A:C21: (F3) +S20
A:D21: (F3) [W1] '
A:E21: (F3) +U20
A:F21: (F4) [W1] '
A:H21: (F4) [W1] '
A:J21: (F4) [W1] '
A:L21: (F2) [W1] '
A:N21: (F2) [W1] '
A:P21: (F3) [W1] '
A:R21: (F3) [W1] '
A:T21: (F3) [W1] '
A:V21: (F4) [W1] '
A:A22: {Page} *

A:B22: [W1] '
A:C22: (F3) *
A:D22: (F3) [W1] '
A:E22: (F3) *
A:F22: (F4) [W1] '
A:G22: (F6) 23.7332
A:H22: (F4) [W1] '
A:I22: (F3) 152.5
A:J22: (F4) [W1] '
A:K22: (F4) [W1] @ROUND(G22*@PI/180,6)
A:L22: (F2) [W1] '
A:M22: (F0) [W1] @IF(G22>=0#AND#G22<180,@IF(G22<90,1,2),@IF(G22<270,3,4))
A:N22: (F2) [W1] '
A:O22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@COS(K22),-I22*@COS(@PI-K22)),@IF(M22=3,
-I22*@COS(K22-@PI),I22*@COS(2*@PI-K22)))
A:P22: (F3) [W1] '
A:Q22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@SIN(K22),I22*@SIN(@PI-K22)),@IF(M22=3,-I
22*@SIN(K22-@PI),-I22*@SIN(2*@PI-K22)))
A:R22: (F3) [W1] '
A:S22: (F3) +C21+O22
A:T22: (F3) [W1] '
A:U22: (F3) +E21+Q22
A:V22: (F4) [W1] '
A:A23: {Page} 'A2
A:B23: [W1] '
A:C23: (F3) +S22
A:D23: (F3) [W1] '
A:E23: (F3) +U22
A:F23: (F4) [W1] '
A:H23: (F4) [W1] '
A:J23: (F4) [W1] '
A:L23: (F2) [W1] '
A:N23: (F2) [W1] '
A:P23: (F3) [W1] '
A:R23: (F3) [W1] '
A:T23: (F3) [W1] '
A:V23: (F4) [W1] '
A:A24: {Page} *
A:B24: [W1] '
A:C24: (F3) *

A:D24: (F3) [W1] '
A:E24: (F3) *
A:F24: (F4) [W1] '
A:G24: (F6) 293.7335
A:H24: (F4) [W1] '
A:I24: (F3) 678.4132
A:J24: (F4) [W1] '
A:K24: (F4) [W1] @ROUND(G24*@PI/180,6)
A:L24: (F2) [W1] '
A:M24: (F0) [W1] @IF(G24>=0#AND#G24<180,@IF(G24<90,1,2),@IF(G24<270,3,4))
A:N24: (F2) [W1] '
A:O24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@COS(K24),-I24*@COS(@PI-K24)),@IF(M24=3,
-I24*@COS(K24-@PI),I24*@COS(2*@PI-K24)))
A:P24: (F3) [W1] '
A:Q24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@SIN(K24),I24*@SIN(@PI-K24)),@IF(M24=3,-I
24*@SIN(K24-@PI),-I24*@SIN(2*@PI-K24)))
A:R24: (F3) [W1] '
A:S24: (F3) +C23+O24
A:T24: (F3) [W1] '
A:U24: (F3) +E23+Q24
A:V24: (F4) [W1] '
A:A25: {Page} 'A3
A:B25: [W1] '
A:C25: (F3) +S24
A:D25: (F3) [W1] '
A:E25: (F3) +U24
A:F25: (F4) [W1] '
A:H25: (F4) [W1] '
A:J25: (F4) [W1] '
A:L25: (F2) [W1] '
A:N25: (F2) [W1] '
A:P25: (F3) [W1] '
A:R25: (F3) [W1] '
A:T25: (F3) [W1] '
A:V25: (F4) [W1] '
A:A26: {Page} *
A:B26: [W1] '
A:C26: (F3) *
A:D26: (F3) [W1] '
A:E26: (F3) *

A:F26: (F4) [W1] '
A:G26: (F6) 198.0001
A:H26: (F4) [W1] '
A:I26: (F3) 152.5
A:J26: (F4) [W1] '
A:K26: (F4) [W1] @ROUND(G26*@PI/180,6)
A:L26: (F2) [W1] '
A:M26: (F0) [W1] @IF(G26>=0#AND#G26<180,@IF(G26<90,1,2),@IF(G26<270,3,4))
A:N26: (F2) [W1] '
A:O26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@COS(K26),-I26*@COS(@PI-K26)),@IF(M26=3,
-I26*@COS(K26-@PI),I26*@COS(2*@PI-K26)))
A:P26: (F3) [W1] '
A:Q26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@SIN(K26),I26*@SIN(@PI-K26)),@IF(M26=3,-I
26*@SIN(K26-@PI),-I26*@SIN(2*@PI-K26)))
A:R26: (F3) [W1] '
A:S26: (F3) +C25+O26
A:T26: (F3) [W1] '
A:U26: (F3) +E25+Q26
A:V26: (F4) [W1] '
A:A27: {Page} 'A4
A:B27: [W1] '
A:C27: (F3) +S26
A:D27: (F3) [W1] '
A:E27: (F3) +U26
A:F27: (F4) [W1] '
A:H27: (F4) [W1] '
A:J27: (F4) [W1] '
A:L27: (F2) [W1] '
A:N27: (F2) [W1] '
A:P27: (F3) [W1] '
A:R27: (F3) [W1] '
A:T27: (F3) [W1] '
A:V27: (F4) [W1] '
A:A28: {Page} *
A:B28: [W1] '
A:C28: (F3) *
A:D28: (F3) [W1] '
A:E28: (F3) *
A:F28: (F4) [W1] '
A:G28: (F6) 285.3916

A:H28: (F4) [W1] '
A:I28: (F3) 152.5
A:J28: (F4) [W1] '
A:K28: (F4) [W1] @ROUND(G28*@PI/180,6)
A:L28: (F2) [W1] '
A:M28: (F0) [W1] @IF(G28>=0#AND#G28<180,@IF(G28<90,1,2),@IF(G28<270,3,4))
A:N28: (F2) [W1] '
A:O28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@COS(K28),-I28*@COS(@PI-K28)),@IF(M28=3,
-I28*@COS(K28-@PI),I28*@COS(2*@PI-K28)))
A:P28: (F3) [W1] '
A:Q28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@SIN(K28),I28*@SIN(@PI-K28)),@IF(M28=3,-I
28*@SIN(K28-@PI),-I28*@SIN(2*@PI-K28)))
A:R28: (F3) [W1] '
A:S28: (F3) +C27+O28
A:T28: (F3) [W1] '
A:U28: (F3) +E27+Q28
A:V28: (F4) [W1] '
A:A29: {Page} 'A5
A:B29: [W1] '
A:C29: (F3) +S28
A:D29: (F3) [W1] '
A:E29: (F3) +U28
A:F29: (F4) [W1] '
A:H29: (F4) [W1] '
A:J29: (F4) [W1] '
A:L29: (F2) [W1] '
A:N29: (F2) [W1] '
A:P29: (F3) [W1] '
A:R29: (F3) [W1] '
A:T29: (F3) [W1] '
A:V29: (F4) [W1] '
A:A30: {Page} *
A:B30: [W1] '
A:C30: (F3) *
A:D30: (F3) [W1] '
A:E30: (F3) *
A:F30: (F4) [W1] '
A:G30: (F6) 195.6117
A:H30: (F4) [W1] '
A:I30: (F3) 470.297

A:J30: (F4) [W1] '|
A:K30: (F4) [W1] @ROUND(G30*@PI/180,6)
A:L30: (F2) [W1] '|
A:M30: (F0) [W1] @IF(G30>=0#AND#G30<180,@IF(G30<90,1,2),@IF(G30<270,3,4))
A:N30: (F2) [W1] '|
A:O30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@COS(K30),-I30*@COS(@PI-K30)),@IF(M30=3,
-I30*@COS(K30-@PI),I30*@COS(2*@PI-K30)))
A:P30: (F3) [W1] '|
A:Q30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@SIN(K30),I30*@SIN(@PI-K30)),@IF(M30=3,-I
30*@SIN(K30-@PI),-I30*@SIN(2*@PI-K30)))
A:R30: (F3) [W1] '|
A:S30: (F3) +C29+O30
A:T30: (F3) [W1] '|
A:U30: (F3) +E29+Q30
A:V30: (F4) [W1] '|
A:A31: {Page} 'A6
A:B31: [W1] '|
A:C31: (F3) +S30
A:D31: (F3) [W1] '|
A:E31: (F3) +U30
A:F31: (F4) [W1] '|
A:H31: (F4) [W1] '|
A:J31: (F4) [W1] '|
A:L31: (F2) [W1] '|
A:N31: (F2) [W1] '|
A:P31: (F3) [W1] '|
A:R31: (F3) [W1] '|
A:T31: (F3) [W1] '|
A:V31: (F4) [W1] '|
A:A32: {Page} *
A:B32: [W1] '|
A:C32: (F3) *
A:D32: (F3) [W1] '|
A:E32: (F3) *
A:F32: (F4) [W1] '|
A:G32: (F6) 285.6116
A:H32: (F4) [W1] '|
A:I32: (F3) 499.9998
A:J32: (F4) [W1] '|
A:K32: (F4) [W1] @ROUND(G32*@PI/180,6)

A:L32: (F2) [W1] "
A:M32: (F0) [W1] @IF(G32>=0#AND#G32<180,@IF(G32<90,1,2),@IF(G32<270,3,4))
A:N32: (F2) [W1] "
A:O32: (F3)
@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@COS(K32),-I32*@COS(@PI-K32)),@IF(M32=3,
-I32*@COS(K32-@PI),I32*@COS(2*@PI-K32)))
A:P32: (F3) [W1] "
A:Q32: (F3)
@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@SIN(K32),I32*@SIN(@PI-K32)),@IF(M32=3,-I
32*@SIN(K32-@PI),-I32*@SIN(2*@PI-K32)))
A:R32: (F3) [W1] "
A:S32: (F3) +C31+O32
A:T32: (F3) [W1] "
A:U32: (F3) +E31+Q32
A:V32: (F4) [W1] "
A:A33: {Page} 'A7
A:B33: [W1] "
A:C33: (F3) +S32
A:D33: (F3) [W1] "
A:E33: (F3) +U32
A:F33: (F4) [W1] "
A:H33: (F4) [W1] "
A:J33: (F4) [W1] "
A:L33: (F2) [W1] "
A:N33: (F2) [W1] "
A:P33: (F3) [W1] "
A:R33: (F3) [W1] "
A:T33: (F3) [W1] "
A:V33: (F4) [W1] "
A:A34: {Page} \
A:B34: [W1] "
A:C34: (F3) \
A:D34: (F3) [W1] "
A:E34: (F3) \
A:F34: (F4) [W1] "
A:G34: (F6) 116.759
A:H34: (F4) [W1] "
A:I34: (F3) 499.9997
A:J34: (F4) [W1] "
A:K34: (F4) [W1] @ROUND(G34*@PI/180,6)
A:L34: (F2) [W1] "
A:M34: (F0) [W1] @IF(G34>=0#AND#G34<180,@IF(G34<90,1,2),@IF(G34<270,3,4))

A:N34: (F2) [W1] '
A:O34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@COS(K34),-I34*@COS(@PI-K34)),@IF(M34=3,
-I34*@COS(K34-@PI),I34*@COS(2*@PI-K34)))
A:P34: (F3) [W1] '
A:Q34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@SIN(K34),I34*@SIN(@PI-K34)),@IF(M34=3,-I
34*@SIN(K34-@PI),-I34*@SIN(2*@PI-K34)))
A:R34: (F3) [W1] '
A:S34: (F3) +C33+O34
A:T34: (F3) [W1] '
A:U34: (F3) +E33+Q34
A:V34: (F4) [W1] '
A:A35: {Page} 'A8
A:B35: [W1] '
A:C35: (F3) +S34
A:D35: (F3) [W1] '
A:E35: (F3) +U34
A:F35: (F4) [W1] '
A:H35: (F4) [W1] '
A:J35: (F4) [W1] '
A:L35: (F2) [W1] '
A:N35: (F2) [W1] '
A:P35: (F3) [W1] '
A:R35: (F3) [W1] '
A:T35: (F3) [W1] '
A:V35: (F4) [W1] '
A:A36: {Page} *
A:B36: [W1] '
A:C36: (F3) *
A:D36: (F3) [W1] '
A:E36: (F3) *
A:F36: (F4) [W1] '
A:G36: (F6) 206.759
A:H36: (F4) [W1] '
A:I36: (F3) 186.697
A:J36: (F4) [W1] '
A:K36: (F4) [W1] @ROUND(G36*@PI/180,6)
A:L36: (F2) [W1] '
A:M36: (F0) [W1] @IF(G36>=0#AND#G36<180,@IF(G36<90,1,2),@IF(G36<270,3,4))
A:N36: (F2) [W1] '
A:O36: (F3)

@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@COS(K36),-I36*@COS(@PI-K36)),@IF(M36=3,-I36*@COS(K36-@PI),I36*@COS(2*@PI-K36)))

A:P36: (F3) [W1] "

A:Q36: (F3)

@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@SIN(K36),I36*@SIN(@PI-K36)),@IF(M36=3,-I36*@SIN(K36-@PI),-I36*@SIN(2*@PI-K36)))

A:R36: (F3) [W1] "

A:S36: (F3) +C35+O36

A:T36: (F3) [W1] "

A:U36: (F3) +E35+Q36

A:V36: (F4) [W1] "

A:A37: {Page} 'A9

A:B37: [W1] "

A:C37: (F3) +S36

A:D37: (F3) [W1] "

A:E37: (F3) +U36

A:F37: [W1] "

A:H37: [W1] "

A:J37: [W1] "

A:L37: [W1] "

A:N37: [W1] "

A:P37: (F3) [W1] "

A:R37: (F3) [W1] "

A:T37: (F3) [W1] "

A:V37: (F4) [W1] "

A:A38: {Page} *

A:B38: [W1] "

A:C38: (F3) *

A:D38: (F3) [W1] "

A:E38: (F3) *

A:F38: (F4) [W1] "

A:G38: (F6) 116.7633

A:H38: (F4) [W1] "

A:I38: (F3) 499.9999

A:J38: (F4) [W1] "

A:K38: (F4) [W1] @ROUND(G38*@PI/180,6)

A:L38: (F2) [W1] "

A:M38: (F0) [W1] @IF(G38>=0#AND#G38<180,@IF(G38<90,1,2),@IF(G38<270,3,4))

A:N38: (F2) [W1] "

A:O38: (F3)

@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@COS(K38),-I38*@COS(@PI-K38)),@IF(M38=3,-I38*@COS(K38-@PI),I38*@COS(2*@PI-K38)))

A:P38: (F3) [W1] '
A:Q38: (F3)
@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@SIN(K38),I38*@SIN(@PI-K38)),@IF(M38=3,-I38*@SIN(K38-@PI),-I38*@SIN(2*@PI-K38)))
A:R38: (F3) [W1] '
A:S38: (F3) +C37+O38
A:T38: (F3) [W1] '
A:U38: (F3) +E37+Q38
A:V38: (F4) [W1] '
A:A39: {Page} 'B0
A:B39: [W1] '
A:C39: (F3) +S38
A:D39: (F3) [W1] '
A:E39: (F3) +U38
A:F39: (F4) [W1] '
A:H39: (F4) [W1] '
A:J39: (F4) [W1] '
A:L39: (F2) [W1] '
A:N39: (F2) [W1] '
A:P39: (F3) [W1] '
A:R39: (F3) [W1] '
A:T39: (F3) [W1] '
A:V39: (F4) [W1] '
A:A40: {Page} *
A:B40: [W1] '
A:C40: (F3) *
A:D40: (F3) [W1] '
A:E40: (F3) *
A:F40: (F4) [W1] '
A:G40: (F6) 276.1509
A:H40: (F4) [W1] '
A:I40: (F3) 500
A:J40: (F4) [W1] '
A:K40: (F4) [W1] @ROUND(G40*@PI/180,6)
A:L40: (F2) [W1] '
A:M40: (F0) [W1] @IF(G40>=0#AND#G40<180,@IF(G40<90,1,2),@IF(G40<270,3,4))
A:N40: (F2) [W1] '
A:O40: (F3)
@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@COS(K40),-I40*@COS(@PI-K40)),@IF(M40=3,-I40*@COS(K40-@PI),I40*@COS(2*@PI-K40)))
A:P40: (F3) [W1] '
A:Q40: (F3)

@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@SIN(K40),I40*@SIN(@PI-K40)),@IF(M40=3,-I40*@SIN(K40-@PI),-I40*@SIN(2*@PI-K40)))

A:R40: (F3) [W1] "

A:S40: (F3) +C39+O40

A:T40: (F3) [W1] "

A:U40: (F3) +E39+Q40

A:V40: (F4) [W1] "

A:A41: {Page} 'B1

A:B41: [W1] "

A:C41: (F3) +S40

A:D41: (F3) [W1] "

A:E41: (F3) +U40

A:F41: (F4) [W1] "

A:H41: (F4) [W1] "

A:J41: (F4) [W1] "

A:L41: (F2) [W1] "

A:N41: (F2) [W1] "

A:P41: (F3) [W1] "

A:R41: (F3) [W1] "

A:T41: (F3) [W1] "

A:V41: (F4) [W1] "

A:A42: {Page} \"

A:B42: [W1] "

A:C42: (F3) \"

A:D42: (F3) [W1] "

A:E42: (F3) \"

A:F42: (F4) [W1] "

A:G42: (F6) 186.1502

A:H42: (F4) [W1] "

A:I42: (F3) 1209.9157

A:J42: (F4) [W1] "

A:K42: (F4) [W1] @ROUND(G42*@PI/180,6)

A:L42: (F2) [W1] "

A:M42: (F0) [W1] @IF(G42>=0#AND#G42<180,@IF(G42<90,1,2),@IF(G42<270,3,4))

A:N42: (F2) [W1] "

A:O42: (F3)

@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@COS(K42),-I42*@COS(@PI-K42)),@IF(M42=3,-I42*@COS(K42-@PI),I42*@COS(2*@PI-K42)))

A:P42: (F3) [W1] "

A:Q42: (F3)

@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@SIN(K42),I42*@SIN(@PI-K42)),@IF(M42=3,-I42*@SIN(K42-@PI),-I42*@SIN(2*@PI-K42)))

A:R42: (F3) [W1] '
A:S42: (F3) +C41+O42
A:T42: (F3) [W1] '
A:U42: (F3) +E41+Q42
A:V42: (F4) [W1] '
A:A43: {Page} 'B2
A:B43: [W1] '
A:C43: (F3) +S42
A:D43: (F3) [W1] '
A:E43: (F3) +U42
A:F43: (F4) [W1] '
A:H43: (F4) [W1] '
A:J43: (F4) [W1] '
A:L43: (F2) [W1] '
A:N43: (F2) [W1] '
A:P43: (F3) [W1] '
A:R43: (F3) [W1] '
A:T43: (F3) [W1] '
A:V43: (F4) [W1] '
A:A44: {Page} *
A:B44: [W1] '
A:C44: (F3) *
A:D44: (F3) [W1] '
A:E44: (F3) *
A:F44: (F4) [W1] '
A:G44: (F6) 96.1502
A:H44: (F4) [W1] '
A:I44: (F3) 500
A:J44: (F4) [W1] '
A:K44: (F4) [W1] @ROUND(G44*@PI/180,6)
A:L44: (F2) [W1] '
A:M44: (F0) [W1] @IF(G44>=0#AND#G44<180,@IF(G44<90,1,2),@IF(G44<270,3,4))
A:N44: (F2) [W1] '
A:O44: (F3)
@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@COS(K44),-I44*@COS(@PI-K44)),@IF(M44=3,
-I44*@COS(K44-@PI),I44*@COS(2*@PI-K44)))
A:P44: (F3) [W1] '
A:Q44: (F3)
@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@SIN(K44),I44*@SIN(@PI-K44)),@IF(M44=3,-I
44*@SIN(K44-@PI),-I44*@SIN(2*@PI-K44)))
A:R44: (F3) [W1] '
A:S44: (F3) +C43+O44

A:T44: (F3) [W1] '
A:U44: (F3) +E43+Q44
A:V44: (F4) [W1] '
A:A45: {Page} 'B3
A:B45: [W1] '
A:C45: (F3) +S44
A:D45: (F3) [W1] '
A:E45: (F3) +U44
A:F45: (F4) [W1] '
A:H45: (F4) [W1] '
A:I45: (F4) [W1] '
A:L45: (F2) [W1] '
A:N45: (F2) [W1] '
A:P45: (F3) [W1] '
A:R45: (F3) [W1] '
A:T45: (F3) [W1] '
A:V45: (F4) [W1] '
A:A46: {Page} *
A:B46: [W1] '
A:C46: (F3) *
A:D46: (F3) [W1] '
A:E46: (F3) *
A:F46: (F4) [W1] '
A:G46: (F6) 255.8812
A:H46: (F4) [W1] '
A:I46: (F3) 500
A:J46: (F4) [W1] '
A:K46: (F4) [W1] @ROUND(G46*@PI/180,6)
A:L46: (F2) [W1] '
A:M46: (F0) [W1] @IF(G46>=0#AND#G46<180,@IF(G46<90,1,2),@IF(G46<270,3,4))
A:N46: (F2) [W1] '
A:O46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@COS(K46),-I46*@COS(@PI-K46)),@IF(M46=3,
-I46*@COS(K46-@PI),I46*@COS(2*@PI-K46)))
A:P46: (F3) [W1] '
A:Q46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@SIN(K46),I46*@SIN(@PI-K46)),@IF(M46=3,-I
46*@SIN(K46-@PI),-I46*@SIN(2*@PI-K46)))
A:R46: (F3) [W1] '
A:S46: (F3) +C45+O46
A:T46: (F3) [W1] '
A:U46: (F3) +E45+Q46

A:V46: (F4) [W1] '
A:A47: {Page} 'B4
A:B47: [W1] '
A:C47: (F3) +S46
A:D47: (F3) [W1] '
A:E47: (F3) +U46
A:F47: (F4) [W1] '
A:H47: (F4) [W1] '
A:J47: (F4) [W1] '
A:L47: (F2) [W1] '
A:N47: (F2) [W1] '
A:P47: (F3) [W1] '
A:R47: (F3) [W1] '
A:T47: (F3) [W1] '
A:V47: (F4) [W1] '
A:A48: {Page} *
A:B48: [W1] '
A:C48: (F3) *
A:D48: (F3) [W1] '
A:E48: (F3) *
A:F48: (F4) [W1] '
A:G48: (F6) 165.8811
A:H48: (F4) [W1] '
A:I48: (F3) 1711.954
A:J48: (F4) [W1] '
A:K48: (F4) [W1] @ROUND(G48*@PI/180,6)
A:L48: (F2) [W1] '
A:M48: (F0) [W1] @IF(G48>=0#AND#G48<180,@IF(G48<90,1,2),@IF(G48<270,3,4))
A:N48: (F2) [W1] '
A:O48: (F3)
@IF(M48=1#OR#M48=2,@IF(M48=1,I48*@COS(K48),-I48*@COS(@PI-K48)),@IF(M48=3,
-I48*@COS(K48-@PI),I48*@COS(2*@PI-K48)))
A:P48: (F3) [W1] '
A:Q48: (F3)
@IF(M48=1#OR#M48=2,@IF(M48=1,I48*@SIN(K48),I48*@SIN(@PI-K48)),@IF(M48=3,-I
48*@SIN(K48-@PI),-I48*@SIN(2*@PI-K48)))
A:R48: (F3) [W1] '
A:S48: (F3) +C47+O48
A:T48: (F3) [W1] '
A:U48: (F3) +E47+Q48
A:V48: (F4) [W1] '
A:A49: {Page} 'B5

A:B49: [W1] '
A:C49: (F3) +S48
A:D49: (F3) [W1] '
A:E49: (F3) +U48
A:F49: (F4) [W1] '
A:H49: (F4) [W1] '
A:J49: (F4) [W1] '
A:L49: (F2) [W1] '
A:N49: (F2) [W1] '
A:P49: (F3) [W1] '
A:R49: (F3) [W1] '
A:T49: (F3) [W1] '
A:V49: (F4) [W1] '
A:A50: {Page} *
A:B50: [W1] '
A:C50: (F3) *
A:D50: (F3) [W1] '
A:E50: (F3) *
A:F50: (F4) [W1] '
A:G50: (F6) 75.8811
A:H50: (F4) [W1] '
A:I50: (F3) 291.532
A:J50: (F4) [W1] '
A:K50: (F4) [W1] @ROUND(G50*@PI/180,6)
A:L50: (F2) [W1] '
A:M50: (F0) [W1] @IF(G50>=0#AND#G50<180,@IF(G50<90,1,2),@IF(G50<270,3,4))
A:N50: (F2) [W1] '
A:O50: (F3)
@IF(M50=1#OR#M50=2,@IF(M50=1,I50*@COS(K50),-I50*@COS(@PI-K50)),@IF(M50=3,
-I50*@COS(K50-@PI),I50*@COS(2*@PI-K50)))
A:P50: (F3) [W1] '
A:Q50: (F3)
@IF(M50=1#OR#M50=2,@IF(M50=1,I50*@SIN(K50),I50*@SIN(@PI-K50)),@IF(M50=3,-I
50*@SIN(K50-@PI),-I50*@SIN(2*@PI-K50)))
A:R50: (F3) [W1] '
A:S50: (F3) +C49+O50
A:T50: (F3) [W1] '
A:U50: (F3) +E49+Q50
A:V50: (F4) [W1] '
A:A51: {Page} 'B9
A:B51: [W1] '
A:C51: (F3) +S50

A:D51: (F3) [W1] '
A:E51: (F3) +U50
A:F51: (F4) [W1] '
A:H51: (F4) [W1] '
A:J51: (F4) [W1] '
A:L51: (F2) [W1] '
A:N51: (F2) [W1] '
A:P51: (F3) [W1] '
A:R51: (F3) [W1] '
A:T51: (F3) [W1] '
A:V51: (F4) [W1] '
A:A52: {Page} *
A:B52: [W1] '
A:C52: (F3) *
A:D52: (F3) [W1] '
A:E52: (F3) *
A:F52: (F4) [W1] '
A:G52: (F6) 113.2439
A:H52: (F4) [W1] '
A:I52: (F3) 291.532
A:J52: (F4) [W1] '
A:K52: (F4) [W1] @ROUND(G52*@PI/180,6)
A:L52: (F2) [W1] '
A:M52: (F0) [W1] @IF(G52>=0#AND#G52<180,@IF(G52<90,1,2),@IF(G52<270,3,4))
A:N52: (F2) [W1] '
A:O52: (F3)
@IF(M52=1#OR#M52=2,@IF(M52=1,I52*@COS(K52),-I52*@COS(@PI-K52)),@IF(M52=3,
-I52*@COS(K52-@PI),I52*@COS(2*@PI-K52)))
A:P52: (F3) [W1] '
A:Q52: (F3)
@IF(M52=1#OR#M52=2,@IF(M52=1,I52*@SIN(K52),I52*@SIN(@PI-K52)),@IF(M52=3,-I
52*@SIN(K52-@PI),-I52*@SIN(2*@PI-K52)))
A:R52: (F3) [W1] '
A:S52: (F3) +C51+O52
A:T52: (F3) [W1] '
A:U52: (F3) +E51+Q52
A:V52: (F4) [W1] '
A:A53: {Page} 'C0
A:B53: [W1] '
A:C53: (F3) +S52
A:D53: (F3) [W1] '
A:E53: (F3) +U52

A:F53: (F4) [W1] '
A:H53: (F4) [W1] '
A:J53: (F4) [W1] '
A:L53: (F2) [W1] '
A:N53: (F2) [W1] '
A:P53: (F3) [W1] '
A:R53: (F3) [W1] '
A:T53: (F3) [W1] '
A:V53: (F4) [W1] '
A:A54: {Page} *
A:B54: [W1] '
A:C54: (F3) *
A:D54: (F3) [W1] '
A:E54: (F3) *
A:F54: (F4) [W1] '
A:G54: (F6) 23.2439
A:H54: (F4) [W1] '
A:I54: (F3) 293.189
A:J54: (F4) [W1] '
A:K54: (F4) [W1] @ROUND(G54*@PI/180,6)
A:L54: (F2) [W1] '
A:M54: (F0) [W1] @IF(G54>=0#AND#G54<180,@IF(G54<90,1,2),@IF(G54<270,3,4))
A:N54: (F2) [W1] '
A:O54: (F3)
@IF(M54=1#OR#M54=2,@IF(M54=1,I54*@COS(K54),-I54*@COS(@PI-K54)),@IF(M54=3,
-I54*@COS(K54-@PI),I54*@COS(2*@PI-K54)))
A:P54: (F3) [W1] '
A:Q54: (F3)
@IF(M54=1#OR#M54=2,@IF(M54=1,I54*@SIN(K54),I54*@SIN(@PI-K54)),@IF(M54=3,-I
54*@SIN(K54-@PI),-I54*@SIN(2*@PI-K54)))
A:R54: (F3) [W1] '
A:S54: (F3) +C53+O54
A:T54: (F3) [W1] '
A:U54: (F3) +E53+Q54
A:V54: (F4) [W1] '
A:A55: {Page} 'C1
A:B55: [W1] '
A:C55: (F3) +S54
A:D55: (F3) [W1] '
A:E55: (F3) +U54
A:F55: (F4) [W1] '
A:H55: (F4) [W1] '

A:J55: (F4) [W1] '
A:L55: (F2) [W1] '
A:N55: (F2) [W1] '
A:P55: (F3) [W1] '
A:R55: (F3) [W1] '
A:T55: (F3) [W1] '
A:V55: (F4) [W1] '
A:A56: {Page} *
A:B56: [W1] '
A:C56: (F3) *
A:D56: (F3) [W1] '
A:E56: (F3) *
A:F56: (F4) [W1] '
A:G56: (F6) 293.2445
A:H56: (F4) [W1] '
A:I56: (F3) 305.0001
A:J56: (F4) [W1] '
A:K56: (F4) [W1] @ROUND(G56*@PI/180,6)
A:L56: (F2) [W1] '
A:M56: (F0) [W1] @IF(G56>=0#AND#G56<180,@IF(G56<90,1,2),@IF(G56<270,3,4))
A:N56: (F2) [W1] '
A:O56: (F3)
@IF(M56=1#OR#M56=2,@IF(M56=1,I56*@COS(K56),-I56*@COS(@PI-K56)),@IF(M56=3,
-I56*@COS(K56-@PI),I56*@COS(2*@PI-K56)))
A:P56: (F3) [W1] '
A:Q56: (F3)
@IF(M56=1#OR#M56=2,@IF(M56=1,I56*@SIN(K56),I56*@SIN(@PI-K56)),@IF(M56=3,-I
56*@SIN(K56-@PI),-I56*@SIN(2*@PI-K56)))
A:R56: (F3) [W1] '
A:S56: (F3) +C55+O56
A:T56: (F3) [W1] '
A:U56: (F3) +E55+Q56
A:V56: (F4) [W1] '
A:A57: {Page} 'C2
A:B57: [W1] '
A:C57: (F3) +S56
A:D57: (F3) [W1] '
A:E57: (F3) +U56
A:F57: (F4) [W1] '
A:H57: (F4) [W1] '
A:I57: (F4) [W1] '
A:L57: (F2) [W1] '

A:N57: (F2) [W1] '
A:P57: (F3) [W1] '
A:R57: (F3) [W1] '
A:T57: (F3) [W1] '
A:V57: (F4) [W1] '
A:A58: {Page} *
A:B58: [W1] '
A:C58: (F3) *
A:D58: (F3) [W1] '
A:E58: (F3) *
A:F58: (F4) [W1] '
A:G58: (F6) 92.9993
A:H58: (F4) [W1] '
A:I58: (F3) 304.9998
A:J58: (F4) [W1] '
A:K58: (F4) [W1] @ROUND(G58*@PI/180,6)
A:L58: (F2) [W1] '
A:M58: (F0) [W1] @IF(G58>=0#AND#G58<180,@IF(G58<90,1,2),@IF(G58<270,3,4))
A:N58: (F2) [W1] '
A:O58: (F3)
@IF(M58=1#OR#M58=2,@IF(M58=1,I58*@COS(K58),-I58*@COS(@PI-K58)),@IF(M58=3,
-I58*@COS(K58-@PI),I58*@COS(2*@PI-K58)))
A:P58: (F3) [W1] '
A:Q58: (F3)
@IF(M58=1#OR#M58=2,@IF(M58=1,I58*@SIN(K58),I58*@SIN(@PI-K58)),@IF(M58=3,-I
58*@SIN(K58-@PI),-I58*@SIN(2*@PI-K58)))
A:R58: (F3) [W1] '
A:S58: (F3) +C57+O58
A:T58: (F3) [W1] '
A:U58: (F3) +E57+Q58
A:V58: (F4) [W1] '
A:A59: {Page} 'C3
A:B59: [W1] '
A:C59: (F3) +S58
A:D59: (F3) [W1] '
A:E59: (F3) +U58
A:F59: [W1] '
A:H59: [W1] '
A:J59: [W1] '
A:L59: [W1] '
A:N59: [W1] '
A:P59: (F3) [W1] '

A:R59: (F3) [W1] '
A:T59: (F3) [W1] '
A:V59: (F4) [W1] '
A:A60: {Page} *
A:B60: [W1] '
A:C60: (F3) *
A:D60: (F3) [W1] '
A:E60: (F3) *
A:F60: (F4) [W1] '
A:G60: (F6) 3
A:H60: (F4) [W1] '
A:I60: (F3) 399.404
A:J60: (F4) [W1] '
A:K60: (F4) [W1] @ROUND(G60*@PI/180,6)
A:L60: (F2) [W1] '
A:M60: (F0) [W1] @IF(G60>=0#AND#G60<180,@IF(G60<90,1,2),@IF(G60<270,3,4))
A:N60: (F2) [W1] '
A:O60: (F3)
@IF(M60=1#OR#M60=2,@IF(M60=1,I60*@COS(K60),-I60*@COS(@PI-K60)),@IF(M60=3,
-I60*@COS(K60-@PI),I60*@COS(2*@PI-K60)))
A:P60: (F3) [W1] '
A:Q60: (F3)
@IF(M60=1#OR#M60=2,@IF(M60=1,I60*@SIN(K60),I60*@SIN(@PI-K60)),@IF(M60=3,-I
60*@SIN(K60-@PI),-I60*@SIN(2*@PI-K60)))
A:R60: (F3) [W1] '
A:S60: (F3) +C59+O60
A:T60: (F3) [W1] '
A:U60: (F3) +E59+Q60
A:V60: (F4) [W1] '
A:A61: {Page} 'C4
A:B61: [W1] '
A:C61: (F3) +S60
A:D61: (F3) [W1] '
A:E61: (F3) +U60
A:F61: (F4) [W1] '
A:H61: (F4) [W1] '
A:J61: (F4) [W1] '
A:L61: (F2) [W1] '
A:N61: (F2) [W1] '
A:P61: (F3) [W1] '
A:R61: (F3) [W1] '
A:T61: (F3) [W1] '

A:V61: (F4) [W1] '
A:A62: {Page} *
A:B62: [W1] '
A:C62: (F3) *
A:D62: (F3) [W1] '
A:E62: (F3) *
A:F62: (F4) [W1] '
A:G62: (F6) 108.0005
A:H62: (F4) [W1] '
A:I62: (F3) 22.228
A:J62: (F4) [W1] '
A:K62: (F4) [W1] @ROUND(G62*@PI/180,6)
A:L62: (F2) [W1] '
A:M62: (F0) [W1] @IF(G62>=0#AND#G62<180,@IF(G62<90,1,2),@IF(G62<270,3,4))
A:N62: (F2) [W1] '
A:O62: (F3)
@IF(M62=1#OR#M62=2,@IF(M62=1,I62*@COS(K62),-I62*@COS(@PI-K62)),@IF(M62=3,
-I62*@COS(K62-@PI),I62*@COS(2*@PI-K62)))
A:P62: (F3) [W1] '
A:Q62: (F3)
@IF(M62=1#OR#M62=2,@IF(M62=1,I62*@SIN(K62),I62*@SIN(@PI-K62)),@IF(M62=3,-I
62*@SIN(K62-@PI),-I62*@SIN(2*@PI-K62)))
A:R62: (F3) [W1] '
A:S62: (F3) +C61+O62
A:T62: (F3) [W1] '
A:U62: (F3) +E61+Q62
A:V62: (F4) [W1] '
A:A63: {Page} 'C5
A:B63: [W1] '
A:C63: (F3) +S62
A:D63: (F3) [W1] '
A:E63: (F3) +U62
A:F63: (F4) [W1] '
A:H63: (F4) [W1] '
A:J63: (F4) [W1] '
A:L63: (F2) [W1] '
A:N63: (F2) [W1] '
A:P63: (F3) [W1] '
A:R63: (F3) [W1] '
A:T63: (F3) [W1] '
A:V63: (F4) [W1] '
A:A64: {Page} *

A:B64: [W1] '
A:C64: (F3) *
A:D64: (F3) [W1] '
A:E64: (F3) *
A:F64: (F4) [W1] '
A:G64: (F6) 197.9994
A:H64: (F4) [W1] '
A:I64: (F3) 25
A:J64: (F4) [W1] '
A:K64: (F4) [W1] @ROUND(G64*@PI/180,6)
A:L64: (F2) [W1] '
A:M64: (F0) [W1] @IF(G64>=0#AND#G64<180,@IF(G64<90,1,2),@IF(G64<270,3,4))
A:N64: (F2) [W1] '
A:O64: (F3)
@IF(M64=1#OR#M64=2,@IF(M64=1,I64*@COS(K64),-I64*@COS(@PI-K64)),@IF(M64=3,
-I64*@COS(K64-@PI),I64*@COS(2*@PI-K64)))
A:P64: (F3) [W1] '
A:Q64: (F3)
@IF(M64=1#OR#M64=2,@IF(M64=1,I64*@SIN(K64),I64*@SIN(@PI-K64)),@IF(M64=3,-I
64*@SIN(K64-@PI),-I64*@SIN(2*@PI-K64)))
A:R64: (F3) [W1] '
A:S64: (F3) +C63+O64
A:T64: (F3) [W1] '
A:U64: (F3) +E63+Q64
A:V64: (F4) [W1] '
A:A65: {Page} 'C6
A:B65: [W1] '
A:C65: (F3) +S64
A:D65: (F3) [W1] '
A:E65: (F3) +U64
A:F65: (F4) [W1] '
A:H65: (F4) [W1] '
A:J65: (F4) [W1] '
A:L65: (F2) [W1] '
A:N65: (F2) [W1] '
A:P65: (F3) [W1] '
A:R65: (F3) [W1] '
A:T65: (F3) [W1] '
A:V65: (F4) [W1] '
A:A66: {Page} *
A:B66: [W1] '
A:C66: (F3) *

A:D66: (F3) [W1] '
A:E66: (F3) *
A:F66: (F4) [W1] '
A:G66: (F6) 93.0013
A:H66: (F4) [W1] '
A:I66: (F3) 25
A:J66: (F4) [W1] '
A:K66: (F4) [W1] @ROUND(G66*@PI/180,6)
A:L66: (F2) [W1] '
A:M66: (F0) [W1] @IF(G66>=0#AND#G66<180,@IF(G66<90,1,2),@IF(G66<270,3,4))
A:N66: (F2) [W1] '
A:O66: (F3)
@IF(M66=1#OR#M66=2,@IF(M66=1,I66*@COS(K66),-I66*@COS(@PI-K66)),@IF(M66=3,
-I66*@COS(K66-@PI),I66*@COS(2*@PI-K66)))
A:P66: (F3) [W1] '
A:Q66: (F3)
@IF(M66=1#OR#M66=2,@IF(M66=1,I66*@SIN(K66),I66*@SIN(@PI-K66)),@IF(M66=3,-I
66*@SIN(K66-@PI),-I66*@SIN(2*@PI-K66)))
A:R66: (F3) [W1] '
A:S66: (F3) +C65+O66
A:T66: (F3) [W1] '
A:U66: (F3) +E65+Q66
A:V66: (F4) [W1] '
A:A67: {Page} 'C7
A:B67: [W1] '
A:C67: (F3) +S66
A:D67: (F3) [W1] '
A:E67: (F3) +U66
A:F67: (F4) [W1] '
A:H67: (F4) [W1] '
A:J67: (F4) [W1] '
A:L67: (F2) [W1] '
A:N67: (F2) [W1] '
A:P67: (F3) [W1] '
A:R67: (F3) [W1] '
A:T67: (F3) [W1] '
A:V67: (F4) [W1] '
A:A68: {Page} *
A:B68: [W1] '
A:C68: (F3) *
A:D68: (F3) [W1] '
A:E68: (F3) *

A:F68: (F4) [W1] '
A:G68: (F6) 3
A:H68: (F4) [W1] '
A:I68: (F4) 2345.506
A:J68: (F4) [W1] '
A:K68: (F4) [W1] @ROUND(G68*@PI/180,6)
A:L68: (F2) [W1] '
A:M68: (F0) [W1] @IF(G68>=0#AND#G68<180,@IF(G68<90,1,2),@IF(G68<270,3,4))
A:N68: (F2) [W1] '
A:O68: (F3)
@IF(M68=1#OR#M68=2,@IF(M68=1,I68*@COS(K68),-I68*@COS(@PI-K68)),@IF(M68=3,
-I68*@COS(K68-@PI),I68*@COS(2*@PI-K68)))
A:P68: (F3) [W1] '
A:Q68: (F3)
@IF(M68=1#OR#M68=2,@IF(M68=1,I68*@SIN(K68),I68*@SIN(@PI-K68)),@IF(M68=3,-I
68*@SIN(K68-@PI),-I68*@SIN(2*@PI-K68)))
A:R68: (F3) [W1] '
A:S68: (F3) +C67+O68
A:T68: (F3) [W1] '
A:U68: (F3) +E67+Q68
A:V68: (F4) [W1] '
A:A69: {Page} 'C8 (CLOSE)
A:B69: [W1] '
A:C69: (F3) +S68
A:D69: (F3) [W1] '
A:E69: (F3) +U68
A:F69: (F4) [W1] '
A:H69: (F4) [W1] '
A:J69: (F4) [W1] '
A:L69: (F2) [W1] '
A:N69: (F2) [W1] '
A:P69: (F3) [W1] '
A:R69: (F3) [W1] '
A:T69: (F3) [W1] '
A:V69: (F4) [W1] '

Attachment II

Cell Contents of Spreadsheet
used to
Generate Table 7-2

(Includes a copy of the table with rows/columns labeled)

A	B	C	D	E	F	G	H	I	JKLMN	O	P	Q	R	S	T	U	V
1	TABLE 7-2 - LOWER BLOCK HORIZONTAL TRAVERSE																
2	LOBLKTRV.WK1																
3	Enter	Enter	Enter	Enter	Enter	Enter	Enter	Enter									
4	Point	1st Northing	1st Easting	Azimuths	Horizontal												
5	Number			(Dec. Deg.	Distance												
6		Read	Read	from	to												
7		Subsequent	Subsequent	North)	Next Point												
8		Northings	Eastings														
9																	
10	INPUTS												NEXT POINT COORDS				
11	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
12	POINT	NORTH	EAST	AZIMUTH	HORIZ DIST					dN	dE		NORTH	EAST			
13	=====	=====	=====	=====	=====					=====	=====		=====	=====			
14																	
15																	
16																	
17	H1	233702.003	171563.932														
18						183.000000	1211.2740	** **		-1208.614	-63.394		232492.389	171500.538			
19	D6	232492.389	171500.538														
20						183.000000	385.6370	** **		-385.138	-19.136		232127.253	171481.402			
21	D7	232127.253	171481.402														
22						93.000000	150.0000	** **		-7.850	149.794		232119.403	171631.197			
23	D8	232119.403	171631.197														
24						117.878600	150.0000	** **		-70.140	132.591		232049.263	171763.788			
25	D9	232049.263	171763.788														
26						27.878300	1110.4040	** **		961.534	519.219		233030.796	172283.007			
27	E0	233030.796	172283.007														
28						297.878200	305.0000	** **		142.618	-269.603		233173.412	172013.404			
29	E1	233173.412	172013.404														
30						54.843800	305.0000	** **		175.621	249.364		233349.033	172262.768			
31	E2	233349.033	172262.768														
32						324.843800	889.0800	** **		726.900	-511.937		234076.933	171750.831			
33	C9	234076.933	171750.831														
34						234.843900	115.0980	** **		-86.273	-94.101		234009.660	171656.730			
35	D0	234009.660	171656.730														
36						144.843900	305.0000	** **		-249.364	175.621		233760.296	171832.351			
37	D1	233760.296	171832.351														
38						273.000000	305.000000	** **		15.963	-304.582		233776.259	171527.769			
39	D2	233776.259	171527.769														
40						182.997600	42.3570	** **		-42.299	-2.215		233733.960	171525.553			
41	H4	233733.960	171525.553														
42						93.001300	25.0000	** **		-1.309	24.966		233732.651	171550.519			
43	H3	233732.651	171550.519														
44						198.000600	25.0000	** **		-23.776	-7.726		233708.874	171542.793			
45	H2	233708.874	171542.793														
46						108.000500	22.2280	** **		-6.869	21.140		233702.005	171563.933			
47	H1 (CLOSE)	233702.005	171563.933														

A:A1: {Page 1/1} 'LOBLKTRV.WK1
A:E1: {Page Arial MT14} 'TABLE 7-2 - LOWER BLOCK HORIZONTAL TRAVERSE
A:A2: {Page} _
A:B2: [W1] '
A:C2: _
A:D2: [W1] '
A:E2: _
A:F2: [W1] '
A:G2: _
A:H2: [W1] '
A:I2: _
A:J2: [W1] '
A:O2: _
A:P2: [W1] '
A:Q2: _
A:R2: [W1] '
A:S2: _
A:T2: [W1] '
A:U2: _
A:V2: [W1] '
A:A3: {Page} ^Enter
A:B3: [W1] \\
A:C3: ^Enter
A:D3: [W1] \\
A:E3: ^Enter
A:F3: [W1] \\
A:G3: ^Enter
A:H3: [W1] \\
A:I3: ^Enter
A:J3: [W1] \\
A:N3: [W1] \\
A:O3: '
A:P3: [W1] \\
A:Q3: '
A:R3: [W1] \\
A:S3: '
A:T3: [W1] \\
A:U3: '
A:V3: [W1] \\
A:A4: {Page} ^Point
A:B4: [W1] \\
A:C4: '1st Northing

A:D4: [W1] \\
A:E4: '1st Easting
A:F4: [W1] \\
A:G4: ^Azimuths
A:H4: [W1] \\
A:I4: ^Horizontal
A:J4: [W1] \\
A:N4: [W1] \\
A:P4: [W1] \\
A:R4: [W1] \\
A:S4: ^Read
A:T4: [W1] \\
A:U4: ^Read
A:V4: [W1] \\
A:A5: {Page} ^Number
A:B5: [W1] \\
A:C5: \-
A:D5: [W1] \\
A:E5: \-
A:F5: [W1] \\
A:G5: ^ (Dec. Deg.
A:H5: [W1] \\
A:I5: ^Distance
A:J5: {W1} \\
A:N5: [W1] \\
A:P5: [W1] \\
A:R5: [W1] \\
A:S5: ^Subsequent
A:T5: [W1] \\
A:U5: ^Subsequent
A:V5: [W1] \\
A:B6: [W1] \\
A:C6: ^Read
A:D6: [W1] \\
A:E6: ^Read
A:F6: [W1] \\
A:G6: ^from
A:H6: [W1] \\
A:I6: ^to
A:J6: [W1] \\
A:N6: [W1] \\
A:P6: [W1] \\
A:R6: [W1] \\
A:S6: ^Subsequent
A:T6: [W1] \\
A:U6: ^Subsequent
A:V6: [W1] \\
A:B7: [W1] \\
A:C7: ^Read
A:D7: [W1] \\
A:E7: ^Read
A:F7: [W1] \\
A:G7: ^from
A:H7: [W1] \\
A:I7: ^to
A:J7: [W1] \\
A:N7: [W1] \\
A:P7: [W1] \\
A:R7: [W1] \\
A:S7: ^Subsequent
A:T7: [W1] \\
A:U7: ^Subsequent
A:V7: [W1] \\
A:B8: [W1] \\
A:C8: ^Read
A:D8: [W1] \\
A:E8: ^Read
A:F8: [W1] \\
A:G8: ^from
A:H8: [W1] \\
A:I8: ^to
A:J8: [W1] \\
A:N8: [W1] \\
A:P8: [W1] \\
A:R8: [W1] \\
A:S8: ^Subsequent
A:T8: [W1] \\
A:U8: ^Subsequent
A:V8: [W1] \\
A:B9: [W1] \\
A:C9: ^Read
A:D9: [W1] \\
A:E9: ^Read
A:F9: [W1] \\
A:G9: ^from
A:H9: [W1] \\
A:I9: ^to
A:J9: [W1] \\
A:N9: [W1] \\
A:P9: [W1] \\
A:R9: [W1] \\
A:S9: ^Subsequent
A:T9: [W1] \\
A:U9: ^Subsequent
A:V9: [W1] \\
A:B10: [W1] \\
A:C10: ^Read
A:D10: [W1] \\
A:E10: ^Read
A:F10: [W1] \\
A:G10: ^from
A:H10: [W1] \\
A:I10: ^to
A:J10: [W1] \\
A:N10: [W1] \\
A:P10: [W1] \\
A:R10: [W1] \\
A:S10: ^Subsequent
A:T10: [W1] \\
A:U10: ^Subsequent
A:V10: [W1] \\
A:B11: [W1] \\
A:C11: ^Read
A:D11: [W1] \\
A:E11: ^Read
A:F11: [W1] \\
A:G11: ^from
A:H11: [W1] \\
A:I11: ^to
A:J11: [W1] \\
A:N11: [W1] \\
A:P11: [W1] \\
A:R11: [W1] \\
A:S11: ^Subsequent
A:T11: [W1] \\
A:U11: ^Subsequent
A:V11: [W1] \\
A:B12: [W1] \\
A:C12: ^Read
A:D12: [W1] \\
A:E12: ^Read
A:F12: [W1] \\
A:G12: ^from
A:H12: [W1] \\
A:I12: ^to
A:J12: [W1] \\
A:N12: [W1] \\
A:P12: [W1] \\
A:R12: [W1] \\
A:S12: ^Subsequent
A:T12: [W1] \\
A:U12: ^Subsequent
A:V12: [W1] \\
A:B13: [W1] \\
A:C13: ^Read
A:D13: [W1] \\
A:E13: ^Read
A:F13: [W1] \\
A:G13: ^from
A:H13: [W1] \\
A:I13: ^to
A:J13: [W1] \\
A:N13: [W1] \\
A:P13: [W1] \\
A:R13: [W1] \\
A:S13: ^Subsequent
A:T13: [W1] \\
A:U13: ^Subsequent
A:V13: [W1] \\
A:B14: [W1] \\
A:C14: ^Read
A:D14: [W1] \\
A:E14: ^Read
A:F14: [W1] \\
A:G14: ^from
A:H14: [W1] \\
A:I14: ^to
A:J14: [W1] \\
A:N14: [W1] \\
A:P14: [W1] \\
A:R14: [W1] \\
A:S14: ^Subsequent
A:T14: [W1] \\
A:U14: ^Subsequent
A:V14: [W1] \\
A:B15: [W1] \\
A:C15: ^Read
A:D15: [W1] \\
A:E15: ^Read
A:F15: [W1] \\
A:G15: ^from
A:H15: [W1] \\
A:I15: ^to
A:J15: [W1] \\
A:N15: [W1] \\
A:P15: [W1] \\
A:R15: [W1] \\
A:S15: ^Subsequent
A:T15: [W1] \\
A:U15: ^Subsequent
A:V15: [W1] \\
A:B16: [W1] \\
A:C16: ^Read
A:D16: [W1] \\
A:E16: ^Read
A:F16: [W1] \\
A:G16: ^from
A:H16: [W1] \\
A:I16: ^to
A:J16: [W1] \\
A:N16: [W1] \\
A:P16: [W1] \\
A:R16: [W1] \\
A:S16: ^Subsequent
A:T16: [W1] \\
A:U16: ^Subsequent
A:V16: [W1] \\
A:B17: [W1] \\
A:C17: ^Read
A:D17: [W1] \\
A:E17: ^Read
A:F17: [W1] \\
A:G17: ^from
A:H17: [W1] \\
A:I17: ^to
A:J17: [W1] \\
A:N17: [W1] \\
A:P17: [W1] \\
A:R17: [W1] \\
A:S17: ^Subsequent
A:T17: [W1] \\
A:U17: ^Subsequent
A:V17: [W1] \\
A:B18: [W1] \\
A:C18: ^Read
A:D18: [W1] \\
A:E18: ^Read
A:F18: [W1] \\
A:G18: ^from
A:H18: [W1] \\
A:I18: ^to
A:J18: [W1] \\
A:N18: [W1] \\
A:P18: [W1] \\
A:R18: [W1] \\
A:S18: ^Subsequent
A:T18: [W1] \\
A:U18: ^Subsequent
A:V18: [W1] \\
A:B19: [W1] \\
A:C19: ^Read
A:D19: [W1] \\
A:E19: ^Read
A:F19: [W1] \\
A:G19: ^from
A:H19: [W1] \\
A:I19: ^to
A:J19: [W1] \\
A:N19: [W1] \\
A:P19: [W1] \\
A:R19: [W1] \\
A:S19: ^Subsequent
A:T19: [W1] \\
A:U19: ^Subsequent
A:V19: [W1] \\
A:B20: [W1] \\
A:C20: ^Read
A:D20: [W1] \\
A:E20: ^Read
A:F20: [W1] \\
A:G20: ^from
A:H20: [W1] \\
A:I20: ^to
A:J20: [W1] \\
A:N20: [W1] \\
A:P20: [W1] \\
A:R20: [W1] \\
A:S20: ^Subsequent
A:T20: [W1] \\
A:U20: ^Subsequent
A:V20: [W1] \\
A:B21: [W1] \\
A:C21: ^Read
A:D21: [W1] \\
A:E21: ^Read
A:F21: [W1] \\
A:G21: ^from
A:H21: [W1] \\
A:I21: ^to
A:J21: [W1] \\
A:N21: [W1] \\
A:P21: [W1] \\
A:R21: [W1] \\
A:S21: ^Subsequent
A:T21: [W1] \\
A:U21: ^Subsequent
A:V21: [W1] \\
A:B22: [W1] \\
A:C22: ^Read
A:D22: [W1] \\
A:E22: ^Read
A:F22: [W1] \\
A:G22: ^from
A:H22: [W1] \\
A:I22: ^to
A:J22: [W1] \\
A:N22: [W1] \\
A:P22: [W1] \\
A:R22: [W1] \\
A:S22: ^Subsequent
A:T22: [W1] \\
A:U22: ^Subsequent
A:V22: [W1] \\
A:B23: [W1] \\
A:C23: ^Read
A:D23: [W1] \\
A:E23: ^Read
A:F23: [W1] \\
A:G23: ^from
A:H23: [W1] \\
A:I23: ^to
A:J23: [W1] \\
A:N23: [W1] \\
A:P23: [W1] \\
A:R23: [W1] \\
A:S23: ^Subsequent
A:T23: [W1] \\
A:U23: ^Subsequent
A:V23: [W1] \\
A:B24: [W1] \\
A:C24: ^Read
A:D24: [W1] \\
A:E24: ^Read
A:F24: [W1] \\
A:G24: ^from
A:H24: [W1] \\
A:I24: ^to
A:J24: [W1] \\
A:N24: [W1] \\
A:P24: [W1] \\
A:R24: [W1] \\
A:S24: ^Subsequent
A:T24: [W1] \\
A:U24: ^Subsequent
A:V24: [W1] \\
A:B25: [W1] \\
A:C25: ^Read
A:D25: [W1] \\
A:E25: ^Read
A:F25: [W1] \\
A:G25: ^from
A:H25: [W1] \\
A:I25: ^to
A:J25: [W1] \\
A:N25: [W1] \\
A:P25: [W1] \\
A:R25: [W1] \\
A:S25: ^Subsequent
A:T25: [W1] \\
A:U25: ^Subsequent
A:V

A:R6: [W1] \\
A:S6: ^Northings
A:T6: [W1] \\
A:U6: ^Eastings
A:V6: [W1] \\
A:B7: [W1] \\
A:C7: ^Subsequent
A:D7: [W1] \\
A:E7: ^Subsequent
A:F7: [W1] \\
A:G7: ^North)
A:H7: [W1] \\
A:I7: ^Next Point
A:J7: [W1] \\
A:N7: [W1] \\
A:P7: [W1] \\
A:R7: [W1] \\
A:T7: [W1] \\
A:V7: [W1] \\
A:A8: {Page} \\
A:B8: [W1] \\
A:C8: ^Northings
A:D8: [W1] \\
A:E8: ^Eastings
A:F8: [W1] \\
A:G8: \\
A:H8: [W1] \\
A:I8: \\
A:J8: [W1] \\
A:N8: [W1] \\
A:O8: \\
A:P8: [W1] \\
A:Q8: \\
A:R8: [W1] \\
A:S8: \\
A:T8: [W1] \\
A:U8: \\
A:V8: [W1] \\
A:A9: {Page} '
A:C10: *INPUTS
A:S10: ^NEXT POINT COORDS
A:A11: {Page} \=

A:B11: [W1] '=
A:C11: \=
A:D11: [W1] '=
A:E11: \=
A:F11: [W1] '=
A:G11: \=
A:H11: [W1] '=
A:I11: \=
A:J11: [W1] '=
A:R11: [W1] '=
A:S11: \=
A:T11: [W1] '=
A:U11: \=
A:V11: [W1] '=
A:A12: {Page} ^POINT
A:C12: ^NORTH
A:E12: ^EAST
A:G12: ^AZIMUTH
A:I12: ^HORIZ DIST
A:J12: [W1] '|
A:O12: ^dN
A:Q12: ^dE
A:R12: [W1] '|
A:S12: ^NORTH
A:U12: ^EAST
A:A13: {Page} \=
A:B13: [W1] '=
A:C13: \=
A:D13: [W1] '=
A:E13: \=
A:F13: [W1] '=
A:G13: \=
A:H13: [W1] '=
A:I13: \=
A:J13: [W1] '=
A:K13: [W1] \=
A:L13: [W1] '=
A:M13: [W1] \=
A:N13: [W1] '=
A:O13: \=
A:P13: [W1] '=
A:Q13: \=

A:R13: [W1] '=
A:S13: \=
A:T13: [W1] '=
A:U13: \=
A:V13: [W1] '=
A:A15: {Page} '
A:C15: '
A:E15: '
A:A16: {Page} *
A:B16: [W1] '|
A:C16: (F4) *
A:D16: (F4) [W1] '|
A:E16: (F4) *
A:F16: (F4) [W1] '|
A:G16: (F6) '
A:H16: (F4) [W1] '|
A:I16: (F4) '
A:J16: (F4) [W1] '|
A:K16: (F4) [W1] '
A:L16: (F2) [W1] '|
A:M16: (F0) [W1] '
A:N16: (F2) [W1] '|
A:O16: (F4) '
A:P16: (F4) [W1] '|
A:Q16: (F4) '
A:R16: (F2) [W1] '|
A:S16: (F4) '
A:T16: (F4) [W1] '|
A:U16: (F4) '
A:V16: (F4) [W1] '|
A:A17: {Page} 'H1
A:B17: [W1] '|
A:C17: (F3) 233702.003
A:D17: (F3) [W1] '|
A:E17: (F3) 171563.932
A:F17: (F4) [W1] '|
A:H17: (F4) [W1] '|
A:J17: (F4) [W1] '|
A:L17: (F2) [W1] '|
A:N17: (F2) [W1] '|
A:P17: (F3) [W1] '|
A:R17: (F3) [W1] '|

A:T17: (F3) [W1] '
A:V17: (F4) [W1] '
A:A18: {Page} *
A:B18: [W1] '
A:C18: (F3) *
A:D18: (F3) [W1] '
A:E18: (F3) *
A:F18: (F4) [W1] '
A:G18: (F6) 183
A:H18: (F4) [W1] '
A:I18: (F4) 1211.274
A:J18: (F4) [W1] '
A:K18: (F4) [W1] @ROUND(G18*@PI/180,6)
A:L18: (F2) [W1] '
A:M18: (F0) [W1] @IF(G18>=0#AND#G18<180,@IF(G18<90,1,2),@IF(G18<270,3,4))
A:N18: (F2) [W1] '
A:O18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@COS(K18),-I18*@COS(@PI-K18)),@IF(M18=3,
-I18*@COS(K18-@PI),I18*@COS(2*@PI-K18)))
A:P18: (F3) [W1] '
A:Q18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@SIN(K18),I18*@SIN(@PI-K18)),@IF(M18=3,-I
18*@SIN(K18-@PI),-I18*@SIN(2*@PI-K18)))
A:R18: (F3) [W1] '
A:S18: (F3) +C17+O18
A:T18: (F3) [W1] '
A:U18: (F3) +E17+Q18
A:V18: (F4) [W1] '
A:A19: {Page} 'D6
A:B19: [W1] '
A:C19: (F3) +S18
A:D19: (F3) [W1] '
A:E19: (F3) +U18
A:F19: (F4) [W1] '
A:H19: (F4) [W1] '
A:J19: (F4) [W1] '
A:L19: (F2) [W1] '
A:N19: (F2) [W1] '
A:P19: (F3) [W1] '
A:R19: (F3) [W1] '
A:T19: (F3) [W1] '
A:V19: (F4) [W1] '

A:A20: {Page} *
A:B20: [W1] '
A:C20: (F3) *
A:D20: (F3) [W1] '
A:E20: (F3) *
A:F20: (F4) [W1] '
A:G20: (F6) 183
A:H20: (F4) [W1] '
A:I20: (F4) 365.637
A:J20: (F4) [W1] '
A:K20: (F4) [W1] @ROUND(G20*@PI/180,6)
A:L20: (F2) [W1] '
A:M20: (F0) [W1] @IF(G20>=0#AND#G20<180,@IF(G20<90,1,2),@IF(G20<270,3,4))
A:N20: (F2) [W1] '
A:O20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@COS(K20),-I20*@COS(@PI-K20)),@IF(M20=3,
-I20*@COS(K20-@PI),I20*@COS(2*@PI-K20)))
A:P20: (F3) [W1] '
A:Q20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@SIN(K20),I20*@SIN(@PI-K20)),@IF(M20=3,-I
20*@SIN(K20-@PI),-I20*@SIN(2*@PI-K20)))
A:R20: (F3) [W1] '
A:S20: (F3) +C19+O20
A:T20: (F3) [W1] '
A:U20: (F3) +E19+Q20
A:V20: (F4) [W1] '
A:A21: {Page} 'D7
A:B21: [W1] '
A:C21: (F3) +S20
A:D21: (F3) [W1] '
A:E21: (F3) +U20
A:F21: (F4) [W1] '
A:H21: (F4) [W1] '
A:J21: (F4) [W1] '
A:L21: (F2) [W1] '
A:N21: (F2) [W1] '
A:P21: (F3) [W1] '
A:R21: (F3) [W1] '
A:T21: (F3) [W1] '
A:V21: (F4) [W1] '
A:A22: {Page} *
A:B22: [W1] '

A:C22: (F3) *
A:D22: (F3) [W1] '
A:E22: (F3) *
A:F22: (F4) [W1] '
A:G22: (F6) 93
A:H22: (F4) [W1] '
A:I22: (F4) 150
A:J22: (F4) [W1] '
A:K22: (F4) [W1] @ROUND(G22*@PI/180,6)
A:L22: (F2) [W1] '
A:M22: (F0) [W1] @IF(G22>=0#AND#G22<180,@IF(G22<90,1,2),@IF(G22<270,3,4))
A:N22: (F2) [W1] '
A:O22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@COS(K22),-I22*@COS(@PI-K22)),@IF(M22=3,
-I22*@COS(K22-@PI),I22*@COS(2*@PI-K22)))
A:P22: (F3) [W1] '
A:Q22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@SIN(K22),I22*@SIN(@PI-K22)),@IF(M22=3,-I
22*@SIN(K22-@PI),-I22*@SIN(2*@PI-K22)))
A:R22: (F3) [W1] '
A:S22: (F3) +C21+O22
A:T22: (F3) [W1] '
A:U22: (F3) +E21+Q22
A:V22: (F4) [W1] '
A:A23: {Page} 'D8
A:B23: [W1] '
A:C23: (F3) +S22
A:D23: (F3) [W1] '
A:E23: (F3) +U22
A:F23: (F4) [W1] '
A:H23: (F4) [W1] '
A:J23: (F4) [W1] '
A:L23: (F2) [W1] '
A:N23: (F2) [W1] '
A:P23: (F3) [W1] '
A:R23: (F3) [W1] '
A:T23: (F3) [W1] '
A:V23: (F4) [W1] '
A:A24: {Page} *
A:B24: [W1] '
A:C24: (F3) *
A:D24: (F3) [W1] '

A:E24: (F3) *
A:F24: (F4) [W1] '
A:G24: (F6) 117.8786
A:H24: (F4) [W1] '
A:I24: (F4) 150
A:J24: (F4) [W1] '
A:K24: (F4) [W1] @ROUND(G24*@PI/180,6)
A:L24: (F2) [W1] '
A:M24: (F0) [W1] @IF(G24>=0#AND#G24<180,@IF(G24<90,1,2),@IF(G24<270,3,4))
A:N24: (F2) [W1] '
A:O24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@COS(K24),-I24*@COS(@PI-K24)),@IF(M24=3,
-I24*@COS(K24-@PI),I24*@COS(2*@PI-K24)))
A:P24: (F3) [W1] '
A:Q24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@SIN(K24),I24*@SIN(@PI-K24)),@IF(M24=3,-I
24*@SIN(K24-@PI),-I24*@SIN(2*@PI-K24)))
A:R24: (F3) [W1] '
A:S24: (F3) +C23+O24
A:T24: (F3) [W1] '
A:U24: (F3) +E23+Q24
A:V24: (F4) [W1] '
A:A25: {Page} 'D9
A:B25: [W1] '
A:C25: (F3) +S24
A:D25: (F3) [W1] '
A:E25: (F3) +U24
A:F25: (F4) [W1] '
A:H25: (F4) [W1] '
A:J25: (F4) [W1] '
A:L25: (F2) [W1] '
A:N25: (F2) [W1] '
A:P25: (F3) [W1] '
A:R25: (F3) [W1] '
A:T25: (F3) [W1] '
A:V25: (F4) [W1] '
A:A26: {Page} *
A:B26: [W1] '
A:C26: (F3) *
A:D26: (F3) [W1] '
A:E26: (F3) *
A:F26: (F4) [W1] '

A:G26: (F6) 27.8783
A:H26: (F4) [W1] '
A:I26: (F4) 1110.404
A:J26: (F4) [W1] '
A:K26: (F4) [W1] @ROUND(G26*@PI/180,6)
A:L26: (F2) [W1] '
A:M26: (F0) [W1] @IF(G26>=0#AND#G26<180,@IF(G26<90,1,2),@IF(G26<270,3,4))
A:N26: (F2) [W1] '
A:O26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@COS(K26),-I26*@COS(@PI-K26)),@IF(M26=3,
-I26*@COS(K26-@PI),I26*@COS(2*@PI-K26)))
A:P26: (F3) [W1] '
A:Q26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@SIN(K26),I26*@SIN(@PI-K26)),@IF(M26=3,-I
26*@SIN(K26-@PI),-I26*@SIN(2*@PI-K26)))
A:R26: (F3) [W1] '
A:S26: (F3) +C25+O26
A:T26: (F3) [W1] '
A:U26: (F3) +E25+Q26
A:V26: (F4) [W1] '
A:A27: {Page} 'E0
A:B27: [W1] '
A:C27: (F3) +S26
A:D27: (F3) [W1] '
A:E27: (F3) +U26
A:F27: (F4) [W1] '
A:H27: (F4) [W1] '
A:J27: (F4) [W1] '
A:L27: (F2) [W1] '
A:N27: (F2) [W1] '
A:P27: (F3) [W1] '
A:R27: (F3) [W1] '
A:T27: (F3) [W1] '
A:V27: (F4) [W1] '
A:A28: {Page} *
A:B28: [W1] '
A:C28: (F3) *
A:D28: (F3) [W1] '
A:E28: (F3) *
A:F28: (F4) [W1] '
A:G28: (F6) 297.8782
A:H28: (F4) [W1] '

A:I28: (F4) 305
A:J28: (F4) [W1] "
A:K28: (F4) [W1] @ROUND(G28*@PI/180,6)
A:L28: (F2) [W1] "
A:M28: (F0) [W1] @IF(G28>=0#AND#G28<180,@IF(G28<90,1,2),@IF(G28<270,3,4))
A:N28: (F2) [W1] "
A:O28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@COS(K28),-I28*@COS(@PI-K28)),@IF(M28=3,
-I28*@COS(K28-@PI),I28*@COS(2*@PI-K28)))
A:P28: (F3) [W1] "
A:Q28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@SIN(K28),I28*@SIN(@PI-K28)),@IF(M28=3,-I
28*@SIN(K28-@PI),-I28*@SIN(2*@PI-K28)))
A:R28: (F3) [W1] "
A:S28: (F3) +C27+O28
A:T28: (F3) [W1] "
A:U28: (F3) +E27+Q28
A:V28: (F4) [W1] "
A:A29: {Page} 'E1
A:B29: [W1] "
A:C29: (F3) +S28
A:D29: (F3) [W1] "
A:E29: (F3) +U28
A:F29: (F4) [W1] "
A:H29: (F4) [W1] "
A:J29: (F4) [W1] "
A:L29: (F2) [W1] "
A:N29: (F2) [W1] "
A:P29: (F3) [W1] "
A:R29: (F3) [W1] "
A:T29: (F3) [W1] "
A:V29: (F4) [W1] "
A:A30: {Page} \"
A:B30: [W1] "
A:C30: (F3) \"
A:D30: (F3) [W1] "
A:E30: (F3) \"
A:F30: (F4) [W1] "
A:G30: (F6) 54.8439
A:H30: (F4) [W1] "
A:I30: (F4) 305
A:J30: (F4) [W1] "

A:K30: (F4) [W1] @ROUND(G30*@PI/180,6)
A:L30: (F2) [W1] '
A:M30: (F0) [W1] @IF(G30>=0#AND#G30<180,@IF(G30<90,1,2),@IF(G30<270,3,4))
A:N30: (F2) [W1] '
A:O30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@COS(K30),-I30*@COS(@PI-K30)),@IF(M30=3,
-I30*@COS(K30-@PI),I30*@COS(2*@PI-K30)))
A:P30: (F3) [W1] '
A:Q30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@SIN(K30),I30*@SIN(@PI-K30)),@IF(M30=3,-I
30*@SIN(K30-@PI),-I30*@SIN(2*@PI-K30)))
A:R30: (F3) [W1] '
A:S30: (F3) +C29+O30
A:T30: (F3) [W1] '
A:U30: (F3) +E29+Q30
A:V30: (F4) [W1] '
A:A31: {Page} 'E2
A:B31: [W1] '
A:C31: (F3) +S30
A:D31: (F3) [W1] '
A:E31: (F3) +U30
A:F31: (F4) [W1] '
A:H31: (F4) [W1] '
A:J31: (F4) [W1] '
A:L31: (F2) [W1] '
A:N31: (F2) [W1] '
A:P31: (F3) [W1] '
A:R31: (F3) [W1] '
A:T31: (F3) [W1] '
A:V31: (F4) [W1] '
A:A32: {Page} *
A:B32: [W1] '
A:C32: (F3) *
A:D32: (F3) [W1] '
A:E32: (F3) *
A:F32: (F4) [W1] '
A:G32: (F6) 324.8439
A:H32: (F4) [W1] '
A:I32: (F4) 889.08
A:J32: (F4) [W1] '
A:K32: (F4) [W1] @ROUND(G32*@PI/180,6)
A:L32: (F2) [W1] '

A:M32: (F0) [W1] @IF(G32>=0#AND#G32<180,@IF(G32<90,1,2),@IF(G32<270,3,4))
A:N32: (F2) [W1] "
A:O32: (F3)
@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@COS(K32),-I32*@COS(@PI-K32)),@IF(M32=3,
-I32*@COS(K32-@PI),I32*@COS(2*@PI-K32)))
A:P32: (F3) [W1] "
A:Q32: (F3)
@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@SIN(K32),I32*@SIN(@PI-K32)),@IF(M32=3,-I
32*@SIN(K32-@PI),-I32*@SIN(2*@PI-K32)))
A:R32: (F3) [W1] "
A:S32: (F3) +C31+O32
A:T32: (F3) [W1] "
A:U32: (F3) +E31+Q32
A:V32: (F4) [W1] "
A:A33: {Page} 'C9
A:B33: [W1] "
A:C33: (F3) +S32
A:D33: (F3) [W1] "
A:E33: (F3) +U32
A:F33: (F4) [W1] "
A:H33: (F4) [W1] "
A:J33: (F4) [W1] "
A:L33: (F2) [W1] "
A:N33: (F2) [W1] "
A:P33: (F3) [W1] "
A:R33: (F3) [W1] "
A:T33: (F3) [W1] "
A:V33: (F4) [W1] "
A:A34: {Page} *
A:B34: [W1] "
A:C34: (F3) *
A:D34: (F3) [W1] "
A:E34: (F3) *
A:F34: (F4) [W1] "
A:G34: (F6) 234.8439
A:H34: (F4) [W1] "
A:I34: (F4) 115.096
A:J34: (F4) [W1] "
A:K34: (F4) [W1] @ROUND(G34*@PI/180,6)
A:L34: (F2) [W1] "
A:M34: (F0) [W1] @IF(G34>=0#AND#G34<180,@IF(G34<90,1,2),@IF(G34<270,3,4))
A:N34: (F2) [W1] "

A:O34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@COS(K34),-I34*@COS(@PI-K34)),@IF(M34=3,-I34*@COS(K34-@PI),I34*@COS(2*@PI-K34)))
A:P34: (F3) [W1] '
A:Q34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@SIN(K34),I34*@SIN(@PI-K34)),@IF(M34=3,-I34*@SIN(K34-@PI),-I34*@SIN(2*@PI-K34)))
A:R34: (F3) [W1] '
A:S34: (F3) +C33+O34
A:T34: (F3) [W1] '
A:U34: (F3) +E33+Q34
A:V34: (F4) [W1] '
A:A35: {Page} 'D0
A:B35: [W1] '
A:C35: (F3) +S34
A:D35: (F3) [W1] '
A:E35: (F3) +U34
A:F35: (F4) [W1] '
A:H35: (F4) [W1] '
A:J35: (F4) [W1] '
A:L35: (F2) [W1] '
A:N35: (F2) [W1] '
A:P35: (F3) [W1] '
A:R35: (F3) [W1] '
A:T35: (F3) [W1] '
A:V35: (F4) [W1] '
A:A36: {Page} *
A:B36: [W1] '
A:C36: (F3) *
A:D36: (F3) [W1] '
A:E36: (F3) *
A:F36: (F4) [W1] '
A:G36: (F6) 144.8439
A:H36: (F4) [W1] '
A:I36: (F4) 305
A:J36: (F4) [W1] '
A:K36: (F4) [W1] @ROUND(G36*@PI/180,6)
A:L36: (F2) [W1] '
A:M36: (F0) [W1] @IF(G36>=0#AND#G36<180,@IF(G36<90,1,2),@IF(G36<270,3,4))
A:N36: (F2) [W1] '
A:O36: (F3)
@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@COS(K36),-I36*@COS(@PI-K36)),@IF(M36=3,-I36*@COS(K36-@PI),I36*@COS(2*@PI-K36)))

-I36*@COS(K36-@PI),I36*@COS(2*@PI-K36)))
A:P36: (F3) [W1] |
A:Q36: (F3)
@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@SIN(K36),I36*@SIN(@PI-K36)),@IF(M36=3,-I36*@SIN(K36-@PI),-I36*@SIN(2*@PI-K36)))
A:R36: (F3) [W1] |
A:S36: (F3) +C35+O36
A:T36: (F3) [W1] |
A:U36: (F3) +E35+Q36
A:V36: (F4) [W1] |
A:A37: {Page} D1
A:B37: [W1] |
A:C37: (F3) +S36
A:D37: (F3) [W1] |
A:E37: (F3) +U36
A:F37: [W1] |
A:H37: [W1] |
A:J37: [W1] |
A:L37: [W1] |
A:N37: [W1] |
A:P37: (F3) [W1] |
A:R37: (F3) [W1] |
A:T37: (F3) [W1] |
A:V37: (F4) [W1] |
A:A38: {Page} *
A:B38: [W1] |
A:C38: (F3) *
A:D38: (F3) [W1] |
A:E38: (F3) *
A:F38: (F4) [W1] |
A:G38: (F6) 273
A:H38: (F4) [W1] |
A:I38: (F6) 305
A:J38: (F4) [W1] |
A:K38: (F4) [W1] @ROUND(G38*@PI/180,6)
A:L38: (F2) [W1] |
A:M38: (F0) [W1] @IF(G38>=0#AND#G38<180,@IF(G38<90,1,2),@IF(G38<270,3,4))
A:N38: (F2) [W1] |
A:O38: (F3)
@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@COS(K38),-I38*@COS(@PI-K38)),@IF(M38=3,-I38*@COS(K38-@PI),I38*@COS(2*@PI-K38)))
A:P38: (F3) [W1] |

A:Q38: (F3)
@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@SIN(K38),I38*@SIN(@PI-K38)),@IF(M38=3,-I38*@SIN(K38-@PI),-I38*@SIN(2*@PI-K38)))
A:R38: (F3) [W1] '
A:S38: (F3) +C37+O38
A:T38: (F3) [W1] '
A:U38: (F3) +E37+Q38
A:V38: (F4) [W1] '
A:A39: {Page} 'D2
A:B39: [W1] '
A:C39: (F3) +S38
A:D39: (F3) [W1] '
A:E39: (F3) +U38
A:F39: (F4) [W1] '
A:H39: (F4) [W1] '
A:J39: (F4) [W1] '
A:L39: (F2) [W1] '
A:N39: (F2) [W1] '
A:P39: (F3) [W1] '
A:R39: (F3) [W1] '
A:T39: (F3) [W1] '
A:V39: (F4) [W1] '
A:A40: {Page} *
A:B40: [W1] '
A:C40: (F3) *
A:D40: (F3) [W1] '
A:E40: (F3) *
A:F40: (F4) [W1] '
A:G40: (F6) 182.9976
A:H40: (F4) [W1] '
A:I40: (F4) 42.357
A:J40: (F4) [W1] '
A:K40: (F4) [W1] @ROUND(G40*@PI/180,6)
A:L40: (F2) [W1] '
A:M40: (F0) [W1] @IF(G40>=0#AND#G40<180,@IF(G40<90,1,2),@IF(G40<270,3,4))
A:N40: (F2) [W1] '
A:O40: (F3)
@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@COS(K40),-I40*@COS(@PI-K40)),@IF(M40=3,-I40*@COS(K40-@PI),I40*@COS(2*@PI-K40)))
A:P40: (F3) [W1] '
A:Q40: (F3)
@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@SIN(K40),I40*@SIN(@PI-K40)),@IF(M40=3,-I

40*@SIN(K40-@PI),-I40*@SIN(2*@PI-K40)))
A:R40: (F3) [W1] |
A:S40: (F3) +C39+O40
A:T40: (F3) [W1] |
A:U40: (F3) +E39+Q40
A:V40: (F4) [W1] |
A:A41: {Page} 'H4
A:B41: [W1] |
A:C41: (F3) +S40
A:D41: (F3) [W1] |
A:E41: (F3) +U40
A:F41: (F4) [W1] |
A:H41: (F4) [W1] |
A:J41: (F4) [W1] |
A:L41: (F2) [W1] |
A:N41: (F2) [W1] |
A:P41: (F3) [W1] |
A:R41: (F3) [W1] |
A:T41: (F3) [W1] |
A:V41: (F4) [W1] |
A:A42: {Page} *
A:B42: [W1] |
A:C42: (F3) *
A:D42: (F3) [W1] |
A:E42: (F3) *
A:F42: (F4) [W1] |
A:G42: (F6) 93.0013
A:H42: (F4) [W1] |
A:I42: (F4) 25
A:J42: (F4) [W1] |
A:K42: (F4) [W1] @ROUND(G42*@PI/180,6)
A:L42: (F2) [W1] |
A:M42: (F0) [W1] @IF(G42>=0#AND#G42<180,@IF(G42<90,1,2),@IF(G42<270,3,4))
A:N42: (F2) [W1] |
A:O42: (F3)
@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@COS(K42),-I42*@COS(@PI-K42)),@IF(M42=3,
-I42*@COS(K42-@PI),I42*@COS(2*@PI-K42)))
A:P42: (F3) [W1] |
A:Q42: (F3)
@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@SIN(K42),I42*@SIN(@PI-K42)),@IF(M42=3,-I
42*@SIN(K42-@PI),-I42*@SIN(2*@PI-K42)))
A:R42: (F3) [W1] |

A:S42: (F3) +C41+O42
A:T42: (F3) [W1] '
A:U42: (F3) +E41+Q42
A:V42: (F4) [W1] '
A:A43: {Page} 'H3
A:B43: [W1] '
A:C43: (F3) +S42
A:D43: (F3) [W1] '
A:E43: (F3) +U42
A:F43: (F4) [W1] '
A:H43: (F4) [W1] '
A:J43: (F4) [W1] '
A:L43: (F2) [W1] '
A:N43: (F2) [W1] '
A:P43: (F3) [W1] '
A:R43: (F3) [W1] '
A:T43: (F3) [W1] '
A:V43: (F4) [W1] '
A:A44: {Page} *
A:B44: [W1] '
A:C44: (F3) *
A:D44: (F3) [W1] '
A:E44: (F3) *
A:F44: (F4) [W1] '
A:G44: (F6) 198.0008
A:H44: (F4) [W1] '
A:I44: (F4) 25
A:J44: (F4) [W1] '
A:K44: (F4) [W1] @ROUND(G44*@PI/180,6)
A:L44: (F2) [W1] '
A:M44: (F0) [W1] @IF(G44>=0#AND#G44<180,@IF(G44<90,1,2),@IF(G44<270,3,4))
A:N44: (F2) [W1] '
A:O44: (F3)
@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@COS(K44),-I44*@COS(@PI-K44)),@IF(M44=3,
-I44*@COS(K44-@PI),I44*@COS(2*@PI-K44)))
A:P44: (F3) [W1] '
A:Q44: (F3)
@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@SIN(K44),I44*@SIN(@PI-K44)),@IF(M44=3,-I
44*@SIN(K44-@PI),-I44*@SIN(2*@PI-K44)))
A:R44: (F3) [W1] '
A:S44: (F3) +C43+O44
A:T44: (F3) [W1] '

A:U44: (F3) +E43+Q44
A:V44: (F4) [W1] '
A:A45: {Page} 'H2
A:B45: [W1] '
A:C45: (F3) +S44
A:D45: (F3) [W1] '
A:E45: (F3) +U44
A:F45: (F4) [W1] '
A:H45: (F4) [W1] '
A:J45: (F4) [W1] '
A:L45: (F2) [W1] '
A:N45: (F2) [W1] '
A:P45: (F3) [W1] '
A:R45: (F3) [W1] '
A:T45: (F3) [W1] '
A:V45: (F4) [W1] '
A:A46: {Page} *
A:B46: [W1] '
A:C46: (F3) *
A:D46: (F3) [W1] '
A:E46: (F3) *
A:F46: (F4) [W1] '
A:G46: (F6) 108.0005
A:H46: (F4) [W1] '
A:I46: (F4) 22.228
A:J46: (F4) [W1] '
A:K46: (F4) [W1] @ROUND(G46*@PI/180,6)
A:L46: (F2) [W1] '
A:M46: (F0) [W1] @IF(G46>=0#AND#G46<180,@IF(G46<90,1,2),@IF(G46<270,3,4))
A:N46: (F2) [W1] '
A:O46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@COS(K46),-I46*@COS(@PI-K46)),@IF(M46=3,
-I46*@COS(K46-@PI),I46*@COS(2*@PI-K46)))
A:P46: (F3) [W1] '
A:Q46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@SIN(K46),I46*@SIN(@PI-K46)),@IF(M46=3,-I
46*@SIN(K46-@PI),-I46*@SIN(2*@PI-K46)))
A:R46: (F3) [W1] '
A:S46: (F3) +C45+O46
A:T46: (F3) [W1] '
A:U46: (F3) +E45+Q46
A:V46: (F4) [W1] '

A:A47: {Page} 'H1 (CLOSE)

A:B47: [W1] '1

A:C47: (F3) +S46

A:D47: (F3) [W1] '1

A:E47: (F3) +U46

A:F47: (F4) [W1] '1

A:H47: (F4) [W1] '1

A:J47: (F4) [W1] '1

A:L47: (F2) [W1] '1

A:N47: (F2) [W1] '1

A:P47: (F3) [W1] '1

A:R47: (F3) [W1] '1

A:T47: (F3) [W1] '1

A:V47: (F4) [W1] '1

Attachment III

Cell Contents of Spreadsheet
used to
Generate Table 7-3

(Includes Spreadsheet labeled with rows/columns)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	TABLE 7-3 - HORIZONTAL TRAVERSE ALONG LOWER BLOCK ACCESS RAMPS																					
2	RAMP TRAVEL WK1																					
3	Enter	Enter	Enter	Enter	Enter																	
4	Point	for	for	for	for																	
5	Number	Northings	Eastings	Northings	Eastings																	
6		Road	Road																			
7		Subsequent	Subsequent																			
8		Northings	Eastings																			
9																						
10	INPUTS										NEXT POINT COORDS											
11	POINT	NORTH	EAST	AZIMUTH	HORIZ DIST	DN	DE	NORTH	EAST													
12																						
13																						
14																						
15																						
16																						
17	G8 (NR PT/VP)	234087 742	171313 778																			
18				93 000300	305 0000	"	"	-15 984	304 582	234071 778	171818 380											
19	G8	234071 778	171818 380																			
20				28 974400	305 0000	"	"	386 825	147 748	234338 803	171784 108											
21	H0	234338 803	171784 108																			
22				116 974400	289 7840	"	"	-129 235	233 382	234204 388	171899 500											
23	E3	234204 388	171899 500																			
24				28 974100	200 0000	"	"	174 988	98 883	234384 396	172096 383											
25	E4	234384 396	172096 383																			
26				247 042400	200 0000	"	"	-78 010	-184 159	234308 328	171912 224											
27	E5	234308 328	171912 224																			
28				397 042500	548 3540	"	"	504 921	-213 885	234811 247	171888 338											
29	E6	234811 247	171888 338																			
30				247 186200	305 0000	"	"	-118 280	-281 140	234892 987	171417 200											
31	E7	234892 987	171417 200																			
32				18 000000	308 0000	"	"	280 072	94 250	234883 059	171511 450											
33	E8	234883 059	171511 450																			
34				288 000000	98 5250	"	"	30 766	-94 864	235013 814	171416 788											
35	H5	235013 814	171416 788																			
36				288 000000	728 8870	"	"	224 684	-891 415	235238 488	170725 381											
37	E9	235238 488	170725 381																			
38				333 000000	94 802000	"	"	84 488	-43 029	235322 938	170682 341											
39	F0	235322 938	170682 341																			
40				81 000200	305 0000	"	"	138 488	271 767	235481 404	170854 088											
41	F1	235481 404	170854 088																			
42				78 788800	305 0000	"	"	88 818	298 901	235531 223	171251 000											
43	F2	235531 223	171251 000																			
44				188 788800	1418 8810	"	"	-1378 228	324 338	234151 994	171575 338											
45	F3	234151 994	171575 338																			
46				284 788400	305 0000	"	"	-88 821	-288 901	234082 173	171278 437											
47	F4	234082 173	171278 437																			
48				93 000000	308 0000	"	"	-15 982	304 582	234088 211	171583 018											
49	F5	234088 211	171583 018																			
50				183 000000	384 7070	"	"	-384 207	-18 087	233702 003	171583 932											
51	H1	233702 003	171583 932																			
52				288 000600	22 2280	"	"	8 888	-21 140	233708 872	171842 792											
53	H2	233708 872	171842 792																			
54				18 000600	25 0080	"	"	23 778	7 728	233732 648	171850 518											
55	H3	233732 648	171850 518																			
56				273 001300	25 0080	"	"	1 308	-24 968	233733 988	171825 852											
57	H4	233733 988	171825 852																			
58				183 000000	1211 2740	"	"	-1208 814	-83 394	232524 344	171482 168											
59	O5	232524 344	171482 168																			
60				183 000000	813 2590	"	"	812 487	-32 088	231911 888	171430 080											
61	F6	231911 888	171430 080																			
62				273 000000	305 0000	"	"	15 983	-304 582	231827 648	171125 478											
63	F7	231827 648	171125 478																			
64				180 742800	305 0000	"	"	-88 832	289 854	231670 997	171425 133											
65	F8	231670 997	171425 133																			
66				180 741080	1580 9880	"	"	-1533 288	-284 848	230317 688	171130 483											
67	F9	230317 688	171130 483																			
68				280 741100	304 8000	"	"	88 808	-289 440	230374 804	170831 024											
69	G0	230374 804	170831 024																			
70				318 821200	304 8000	"	"	218 333	-211 657	230583 837	170818 573											
71	G1	230583 837	170818 573																			
72				48 820800	272 9570	"	"	188 840	198 418	230783 377	170818 791											
73	G2	230783 377	170818 791																			
74				108 000000	408 6000	"	"	-128 574	388 553	230858 804	171285 344											
75	G3	230858 804	171285 344																			
76				18 000000	308 0000	"	"	280 072	94 250	230848 878	171289 694											
77	G4	230848 878	171289 694																			
78				181 000000	305 0000	"	"	-304 854	-5 373	230841 923	171284 271											
79	G5	230841 923	171284 271																			
80				80 827100	144 2630	"	"	-1 879	144 254	230840 344	171488 525											
81	G6	230840 344	171488 525																			
82				3 000000	305 0000	"	"	304 582	15 983	230944 928	171464 487											
83	G7	230944 928	171464 487																			
84				273 000000	305 0000	"	"	15 983	-304 582	2309												

A:A1: {Page 1/1} RAMPTRAV.WK1

A:E1: {Page Arial MT14} TABLE 7-3 - HORIZONTAL TRAVERSE ALONG LOWER
BLOCK ACCESS RAMPS

A:A2: {Page} \

A:B2: [W1] '

A:C2: \

A:D2: [W1] '

A:E2: \

A:F2: [W1] '

A:G2: \

A:H2: [W1] '

A:I2: \

A:J2: [W1] '

A:O2: \

A:P2: [W1] '

A:Q2: \

A:R2: [W1] '

A:S2: \

A:T2: [W1] '

A:U2: \

A:V2: [W1] '

A:A3: {Page} ^Enter

A:B3: [W1] \

A:C3: ^Enter

A:D3: [W1] \

A:E3: ^Enter

A:F3: [W1] \

A:G3: ^Enter

A:H3: [W1] \

A:I3: ^Enter

A:J3: [W1] \

A:N3: [W1] \

A:O3: '

A:P3: [W1] \

A:Q3: '

A:R3: [W1] \

A:S3: '

A:T3: [W1] \

A:U3: '

A:V3: [W1] \

A:A4: {Page} ^Point

A:B4: [W1] \

A:C4: '1st Northing
A:D4: [W1] \\
A:E4: '1st Easting
A:F4: [W1] \\
A:G4: ^Azimuths
A:H4: [W1] \\
A:I4: ^Horizontal
A:J4: [W1] \\
A:N4: [W1] \\
A:P4: [W1] \\
A:R4: [W1] \\
A:S4: ^Read
A:T4: [W1] \\
A:U4: ^Read
A:V4: [W1] \\
A:A5: {Page} ^Number
A:B5: [W1] \\
A:C5: \\
A:D5: [W1] \\
A:E5: \\
A:F5: [W1] \\
A:G5: ^{Dec, Deg.
A:H5: [W1] \\
A:I5: ^Distance
A:J5: [W1] \\
A:N5: [W1] \\
A:P5: [W1] \\
A:R5: [W1] \\
A:S5: ^Subsequent
A:T5: [W1] \\
A:U5: ^Subsequent
A:V5: [W1] \\
A:B6: [W1] \\
A:C6: ^Read
A:D6: [W1] \\
A:E6: ^Read
A:F6: [W1] \\
A:G6: ^from
A:H6: [W1] \\
A:I6: ^to
A:J6: [W1] \\
A:N6: [W1] \\
A:P6: [W1] \\
A:R6: [W1] \\
A:S6: ^Read
A:T6: [W1] \\
A:U6: ^Read
A:V6: [W1] \\
A:A7: {Page} ^Number
A:B7: [W1] \\
A:C7: \\
A:D7: [W1] \\
A:E7: \\
A:F7: [W1] \\
A:G7: ^{Dec, Deg.
A:H7: [W1] \\
A:I7: ^Distance
A:J7: [W1] \\
A:N7: [W1] \\
A:P7: [W1] \\
A:R7: [W1] \\
A:S7: ^Subsequent
A:T7: [W1] \\
A:U7: ^Subsequent
A:V7: [W1] \\
A:B8: [W1] \\
A:C8: ^Read
A:D8: [W1] \\
A:E8: ^Read
A:F8: [W1] \\
A:G8: ^from
A:H8: [W1] \\
A:I8: ^to
A:J8: [W1] \\
A:N8: [W1] \\
A:P8: [W1] \\
A:R8: [W1] \\
A:S8: ^Read
A:T8: [W1] \\
A:U8: ^Read
A:V8: [W1] \\
A:A9: {Page} ^Number
A:B9: [W1] \\
A:C9: \\
A:D9: [W1] \\
A:E9: \\
A:F9: [W1] \\
A:G9: ^{Dec, Deg.
A:H9: [W1] \\
A:I9: ^Distance
A:J9: [W1] \\
A:N9: [W1] \\
A:P9: [W1] \\
A:R9: [W1] \\
A:S9: ^Subsequent
A:T9: [W1] \\
A:U9: ^Subsequent
A:V9: [W1] \\
A:B10: [W1] \\
A:C10: ^Read
A:D10: [W1] \\
A:E10: ^Read
A:F10: [W1] \\
A:G10: ^from
A:H10: [W1] \\
A:I10: ^to
A:J10: [W1] \\
A:N10: [W1] \\
A:P10: [W1] \\
A:R10: [W1] \\
A:S10: ^Read
A:T10: [W1] \\
A:U10: ^Read
A:V10: [W1] \\
A:A11: {Page} ^Number
A:B11: [W1] \\
A:C11: \\
A:D11: [W1] \\
A:E11: \\
A:F11: [W1] \\
A:G11: ^{Dec, Deg.
A:H11: [W1] \\
A:I11: ^Distance
A:J11: [W1] \\
A:N11: [W1] \\
A:P11: [W1] \\
A:R11: [W1] \\
A:S11: ^Subsequent
A:T11: [W1] \\
A:U11: ^Subsequent
A:V11: [W1] \\
A:B12: [W1] \\
A:C12: ^Read
A:D12: [W1] \\
A:E12: ^Read
A:F12: [W1] \\
A:G12: ^from
A:H12: [W1] \\
A:I12: ^to
A:J12: [W1] \\
A:N12: [W1] \\
A:P12: [W1] \\
A:R12: [W1] \\
A:S12: ^Read
A:T12: [W1] \\
A:U12: ^Read
A:V12: [W1] \\
A:A13: {Page} ^Number
A:B13: [W1] \\
A:C13: \\
A:D13: [W1] \\
A:E13: \\
A:F13: [W1] \\
A:G13: ^{Dec, Deg.
A:H13: [W1] \\
A:I13: ^Distance
A:J13: [W1] \\
A:N13: [W1] \\
A:P13: [W1] \\
A:R13: [W1] \\
A:S13: ^Subsequent
A:T13: [W1] \\
A:U13: ^Subsequent
A:V13: [W1] \\
A:B14: [W1] \\
A:C14: ^Read
A:D14: [W1] \\
A:E14: ^Read
A:F14: [W1] \\
A:G14: ^from
A:H14: [W1] \\
A:I14: ^to
A:J14: [W1] \\
A:N14: [W1] \\
A:P14: [W1] \\
A:R14: [W1] \\
A:S14: ^Read
A:T14: [W1] \\
A:U14: ^Read
A:V14: [W1] \\
A:A15: {Page} ^Number
A:B15: [W1] \\
A:C15: \\
A:D15: [W1] \\
A:E15: \\
A:F15: [W1] \\
A:G15: ^{Dec, Deg.
A:H15: [W1] \\
A:I15: ^Distance
A:J15: [W1] \\
A:N15: [W1] \\
A:P15: [W1] \\
A:R15: [W1] \\
A:S15: ^Subsequent
A:T15: [W1] \\
A:U15: ^Subsequent
A:V15: [W1] \\
A:B16: [W1] \\
A:C16: ^Read
A:D16: [W1] \\
A:E16: ^Read
A:F16: [W1] \\
A:G16: ^from
A:H16: [W1] \\
A:I16: ^to
A:J16: [W1] \\
A:N16: [W1] \\
A:P16: [W1] \\
A:R16: [W1] \\
A:S16: ^Read
A:T16: [W1] \\
A:U16: ^Read
A:V16: [W1] \\
A:A17: {Page} ^Number
A:B17: [W1] \\
A:C17: \\
A:D17: [W1] \\
A:E17: \\
A:F17: [W1] \\
A:G17: ^{Dec, Deg.
A:H17: [W1] \\
A:I17: ^Distance
A:J17: [W1] \\
A:N17: [W1] \\
A:P17: [W1] \\
A:R17: [W1] \\
A:S17: ^Subsequent
A:T17: [W1] \\
A:U17: ^Subsequent
A:V17: [W1] \\
A:B18: [W1] \\
A:C18: ^Read
A:D18: [W1] \\
A:E18: ^Read
A:F18: [W1] \\
A:G18: ^from
A:H18: [W1] \\
A:I18: ^to
A:J18: [W1] \\
A:N18: [W1] \\
A:P18: [W1] \\
A:R18: [W1] \\
A:S18: ^Read
A:T18: [W1] \\
A:U18: ^Read
A:V18: [W1] \\
A:A19: {Page} ^Number
A:B19: [W1] \\
A:C19: \\
A:D19: [W1] \\
A:E19: \\
A:F19: [W1] \\
A:G19: ^{Dec, Deg.
A:H19: [W1] \\
A:I19: ^Distance
A:J19: [W1] \\
A:N19: [W1] \\
A:P19: [W1] \\
A:R19: [W1] \\
A:S19: ^Subsequent
A:T19: [W1] \\
A:U19: ^Subsequent
A:V19: [W1] \\
A:B20: [W1] \\
A:C20: ^Read
A:D20: [W1] \\
A:E20: ^Read
A:F20: [W1] \\
A:G20: ^from
A:H20: [W1] \\
A:I20: ^to
A:J20: [W1] \\
A:N20: [W1] \\
A:P20: [W1] \\
A:R20: [W1] \\
A:S20: ^Read
A:T20: [W1] \\
A:U20: ^Read
A:V20: [W1] \\
A:A21: {Page} ^Number
A:B21: [W1] \\
A:C21: \\
A:D21: [W1] \\
A:E21: \\
A:F21: [W1] \\
A:G21: ^{Dec, Deg.
A:H21: [W1] \\
A:I21: ^Distance
A:J21: [W1] \\
A:N21: [W1] \\
A:P21: [W1] \\
A:R21: [W1] \\
A:S21: ^Subsequent
A:T21: [W1] \\
A:U21: ^Subsequent
A:V21: [W1] \\
A:B22: [W1] \\
A:C22: ^Read
A:D22: [W1] \\
A:E22: ^Read
A:F22: [W1] \\
A:G22: ^from
A:H22: [W1] \\
A:I22: ^to
A:J22: [W1] \\
A:N22: [W1] \\
A:P22: [W1] \\
A:R22: [W1] \\
A:S22: ^Read
A:T22: [W1] \\
A:U22: ^Read
A:V22: [W1] \\
A:A23: {Page} ^Number
A:B23: [W1] \\
A:C23: \\
A:D23: [W1] \\
A:E23: \\
A:F23: [W1] \\
A:G23: ^{Dec, Deg.
A:H23: [W1] \\
A:I23: ^Distance
A:J23: [W1] \\
A:N23: [W1] \\
A:P23: [W1] \\
A:R23: [W1] \\
A:S23: ^Subsequent
A:T23: [W1] \\
A:U23: ^Subsequent
A:V23: [W1] \\
A:B24: [W1] \\
A:C24: ^Read
A:D24: [W1] \\
A:E24: ^Read
A:F24: [W1] \\
A:G24: ^from
A:H24: [W1] \\
A:I24: ^to
A:J24: [W1] \\
A:N24: [W1] \\
A:P24: [W1] \\
A:R24: [W1] \\
A:S24: ^Read
A:T24: [W1] \\
A:U24: ^Read
A:V24: [W1] \\
A:A25: {Page} ^Number
A:B25: [W1] \\
A:C25: \\
A:D25: [W1] \\
A:E

A:P6: [W1] \\
A:R6: [W1] \\
A:S6: ^Northings
A:T6: [W1] \\
A:U6: ^Easting
A:V6: [W1] \\
A:B7: [W1] \\
A:C7: ^Subsequent
A:D7: [W1] \\
A:E7: ^Subsequent
A:F7: [W1] \\
A:G7: ^North)
A:H7: [W1] \\
A:I7: ^Next Point
A:J7: [W1] \\
A:N7: [W1] \\
A:P7: [W1] \\
A:R7: [W1] \\
A:T7: [W1] \\
A:V7: [W1] \\
A:A8: {Page} \\
A:B8: [W1] \\
A:C8: ^Northings
A:D8: [W1] \\
A:E8: ^Easting
A:F8: [W1] \\
A:G8: \\
A:H8: [W1] \\
A:I8: \\
A:J8: [W1] \\
A:N8: [W1] \\
A:O8: \\
A:P8: [W1] \\
A:Q8: \\
A:R8: [W1] \\
A:S8: \\
A:T8: [W1] \\
A:U8: \\
A:V8: [W1] \\
A:A9: {Page} '
A:C10: "INPUTS
A:S10: ^NEXT POINT COORDS

A:A11: {Page} \=
A:B11: [W1] \=
A:C11: \=
A:D11: [W1] \=
A:E11: \=
A:F11: [W1] \=
A:G11: \=
A:H11: [W1] \=
A:I11: \=
A:J11: [W1] \=
A:R11: [W1] \=
A:S11: \=
A:T11: [W1] \=
A:U11: \=
A:V11: [W1] \=
A:A12: {Page} ^POINT
A:C12: ^NORTH
A:E12: ^EAST
A:G12: ^AZIMUTH
A:I12: ^HORIZ DIST
A:J12: [W1] ^
A:O12: ^dN
A:Q12: ^dE
A:R12: [W1] ^
A:S12: ^NORTH
A:U12: ^EAST
A:A13: {Page} \=
A:B13: [W1] \=
A:C13: \=
A:D13: [W1] \=
A:E13: \=
A:F13: [W1] \=
A:G13: \=
A:H13: [W1] \=
A:I13: \=
A:J13: [W1] \=
A:K13: [W1] \=
A:L13: [W1] \=
A:M13: [W1] \=
A:N13: [W1] \=
A:O13: \=
A:P13: [W1] \=

A:Q13: \=

A:R13: [W1] \=

A:S13: \=

A:T13: [W1] \=

A:U13: \=

A:V13: [W1] \=

A:A15: {Page} '

A:C15: '

A:E15: '

A:A16: {Page} *

A:B16: [W1] '|

A:C16: (F4) *

A:D16: (F4) [W1] '|

A:E16: (F4) *

A:F16: (F4) [W1] '|

A:G16: (F6) '

A:H16: (F4) [W1] '|

A:I16: (F4) '

A:J16: (F4) [W1] '|

A:K16: (F4) [W1] '

A:L16: (F2) [W1] '|

A:M16: (F0) [W1] '

A:N16: (F2) [W1] '|

A:O16: (F4) '

A:P16: (F4) [W1] '|

A:Q16: (F4) '

A:R16: (F2) [W1] '|

A:S16: (F4) '

A:T16: (F4) [W1] '|

A:U16: (F4) '

A:V16: (F4) [W1] '|

A:W16: [W1] '

A:A17: {Page} 'C8 (NR PT/VPI)

A:B17: [W1] '|

A:C17: (F3) 234087.742

A:D17: (F3) [W1] '|

A:E17: (F3) 171313.778

A:F17: (F4) [W1] '|

A:H17: (F4) [W1] '|

A:J17: (F4) [W1] '|

A:L17: (F2) [W1] '|

A:N17: (F2) [W1] '|

A:P17: (F3) [W1] '
A:R17: (F3) [W1] '
A:T17: (F3) [W1] '
A:V17: (F4) [W1] '
A:A18: {Page} *
A:B18: [W1] '
A:C18: (F3) *
A:D18: (F3) [W1] '
A:E18: (F3) *
A:F18: (F4) [W1] '
A:G18: (F6) 93.0003
A:H18: (F4) [W1] '
A:I18: (F4) 305
A:J18: (F4) [W1] '
A:K18: (F4) [W1] @ROUND(G18*@PI/180,6)
A:L18: (F2) [W1] '
A:M18: (F0) [W1] @IF(G18>=0#AND#G18<180,@IF(G18<90,1,2),@IF(G18<270,3,4))
A:N18: (F2) [W1] '
A:O18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@COS(K18),-I18*@COS(@PI-K18)),@IF(M18=3,
-I18*@COS(K18-@PI),I18*@COS(2*@PI-K18)))
A:P18: (F3) [W1] '
A:Q18: (F3)
@IF(M18=1#OR#M18=2,@IF(M18=1,I18*@SIN(K18),I18*@SIN(@PI-K18)),@IF(M18=3,-I
18*@SIN(K18-@PI),-I18*@SIN(2*@PI-K18)))
A:R18: (F3) [W1] '
A:S18: (F3) +C17+O18
A:T18: (F3) [W1] '
A:U18: (F3) +E17+Q18
A:V18: (F4) [W1] '
A:A19: {Page} 'G9
A:B19: [W1] '
A:C19: (F3) +S18
A:D19: (F3) [W1] '
A:E19: (F3) +U18
A:F19: (F4) [W1] '
A:H19: (F4) [W1] '
A:J19: (F4) [W1] '
A:L19: (F2) [W1] '
A:N19: (F2) [W1] '
A:P19: (F3) [W1] '
A:R19: (F3) [W1] '

A:T19: (F3) [W1] '
A:V19: (F4) [W1] '
A:A20: {Page} *
A:B20: [W1] '
A:C20: (F3) *
A:D20: (F3) [W1] '
A:E20: (F3) *
A:F20: (F4) [W1] '
A:G20: (F6) 28.9744
A:H20: (F4) [W1] '
A:I20: (F4) 305
A:J20: (F4) [W1] '
A:K20: (F4) [W1] @ROUND(G20*@PI/180,6)
A:L20: (F2) [W1] '
A:M20: (F0) [W1] @IF(G20>=0#AND#G20<180,@IF(G20<90,1,2),@IF(G20<270,3,4))
A:N20: (F2) [W1] '
A:O20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@COS(K20),-I20*@COS(@PI-K20)),@IF(M20=3,
-I20*@COS(K20-@PI),I20*@COS(2*@PI-K20)))
A:P20: (F3) [W1] '
A:Q20: (F3)
@IF(M20=1#OR#M20=2,@IF(M20=1,I20*@SIN(K20),I20*@SIN(@PI-K20)),@IF(M20=3,-I
20*@SIN(K20-@PI),-I20*@SIN(2*@PI-K20)))
A:R20: (F3) [W1] '
A:S20: (F3) +C19+O20
A:T20: (F3) [W1] '
A:U20: (F3) +E19+Q20
A:V20: (F4) [W1] '
A:A21: {Page} 'H0
A:B21: [W1] '
A:C21: (F3) +S20
A:D21: (F3) [W1] '
A:E21: (F3) +U20
A:F21: (F4) [W1] '
A:H21: (F4) [W1] '
A:J21: (F4) [W1] '
A:L21: (F2) [W1] '
A:N21: (F2) [W1] '
A:P21: (F3) [W1] '
A:R21: (F3) [W1] '
A:T21: (F3) [W1] '
A:V21: (F4) [W1] '

A:A22: {Page} *
A:B22: [W1] '
A:C22: (F3) *
A:D22: (F3) [W1] '
A:E22: (F3) *
A:F22: (F4) [W1] '
A:G22: (F6) 118.9744
A:H22: (F4) [W1] '
A:I22: (F4) 266.784
A:J22: (F4) [W1] '
A:K22: (F4) [W1] @ROUND(G22*@PI/180,6)
A:L22: (F2) [W1] '
A:M22: (F0) [W1] @IF(G22>=0#AND#G22<180,@IF(G22<90,1,2),@IF(G22<270,3,4))
A:N22: (F2) [W1] '
A:O22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@COS(K22),-I22*@COS(@PI-K22)),@IF(M22=3,
-I22*@COS(K22-@PI),I22*@COS(2*@PI-K22)))
A:P22: (F3) [W1] '
A:Q22: (F3)
@IF(M22=1#OR#M22=2,@IF(M22=1,I22*@SIN(K22),I22*@SIN(@PI-K22)),@IF(M22=3,-I
22*@SIN(K22-@PI),-I22*@SIN(2*@PI-K22)))
A:R22: (F3) [W1] '
A:S22: (F3) +C21+O22
A:T22: (F3) [W1] '
A:U22: (F3) +E21+Q22
A:V22: (F4) [W1] '
A:A23: {Page} 'E3
A:B23: [W1] '
A:C23: (F3) +S22
A:D23: (F3) [W1] '
A:E23: (F3) +U22
A:F23: (F4) [W1] '
A:H23: (F4) [W1] '
A:J23: (F4) [W1] '
A:L23: (F2) [W1] '
A:N23: (F2) [W1] '
A:P23: (F3) [W1] '
A:R23: (F3) [W1] '
A:T23: (F3) [W1] '
A:V23: (F4) [W1] '
A:A24: {Page} *
A:B24: [W1] '

A:C24: (F3) *
A:D24: (F3) [W1] '
A:E24: (F3) *
A:F24: (F4) [W1] '
A:G24: (F6) 28.9741
A:H24: (F4) [W1] '
A:I24: (F4) 200
A:J24: (F4) [W1] '
A:K24: (F4) [W1] @ROUND(G24*@PI/180,6)
A:L24: (F2) [W1] '
A:M24: (F0) [W1] @IF(G24>=0#AND#G24<180,@IF(G24<90,1,2),@IF(G24<270,3,4))
A:N24: (F2) [W1] '
A:O24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@COS(K24),-I24*@COS(@PI-K24)),@IF(M24=3,
-I24*@COS(K24-@PI),I24*@COS(2*@PI-K24)))
A:P24: (F3) [W1] '
A:Q24: (F3)
@IF(M24=1#OR#M24=2,@IF(M24=1,I24*@SIN(K24),I24*@SIN(@PI-K24)),@IF(M24=3,-I
24*@SIN(K24-@PI),-I24*@SIN(2*@PI-K24)))
A:R24: (F3) [W1] '
A:S24: (F3) +C23+O24
A:T24: (F3) [W1] '
A:U24: (F3) +E23+Q24
A:V24: (F4) [W1] '
A:A25: {Page} 'E4
A:B25: [W1] '
A:C25: (F3) +S24
A:D25: (F3) [W1] '
A:E25: (F3) +U24
A:F25: (F4) [W1] '
A:H25: (F4) [W1] '
A:J25: (F4) [W1] '
A:L25: (F2) [W1] '
A:N25: (F2) [W1] '
A:P25: (F3) [W1] '
A:R25: (F3) [W1] '
A:T25: (F3) [W1] '
A:V25: (F4) [W1] '
A:A26: {Page} *
A:B26: [W1] '
A:C26: (F3) *
A:D26: (F3) [W1] '

A:E26: (F3) *
A:F26: (F4) [W1] '
A:G26: (F6) 247.0424
A:H26: (F4) [W1] '
A:I26: (F4) 200
A:J26: (F4) [W1] '
A:K26: (F4) [W1] @ROUND(G26*@PI/180,6)
A:L26: (F2) [W1] '
A:M26: (F0) [W1] @IF(G26>=0#AND#G26<180,@IF(G26<90,1,2),@IF(G26<270,3,4))
A:N26: (F2) [W1] '
A:O26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@COS(K26),-I26*@COS(@PI-K26)),@IF(M26=3,
-I26*@COS(K26-@PI),I26*@COS(2*@PI-K26)))
A:P26: (F3) [W1] '
A:Q26: (F3)
@IF(M26=1#OR#M26=2,@IF(M26=1,I26*@SIN(K26),I26*@SIN(@PI-K26)),@IF(M26=3,-I
26*@SIN(K26-@PI),-I26*@SIN(2*@PI-K26)))
A:R26: (F3) [W1] '
A:S26: (F3) +C25+O26
A:T26: (F3) [W1] '
A:U26: (F3) +E25+Q26
A:V26: (F4) [W1] '
A:A27: {Page} 'E5
A:B27: [W1] '
A:C27: (F3) +S26
A:D27: (F3) [W1] '
A:E27: (F3) +U26
A:F27: (F4) [W1] '
A:H27: (F4) [W1] '
A:J27: (F4) [W1] '
A:L27: (F2) [W1] '
A:N27: (F2) [W1] '
A:P27: (F3) [W1] '
A:R27: (F3) [W1] '
A:T27: (F3) [W1] '
A:V27: (F4) [W1] '
A:A28: {Page} *
A:B28: [W1] '
A:C28: (F3) *
A:D28: (F3) [W1] '
A:E28: (F3) *
A:F28: (F4) [W1] '

A:G28: (F6) 337.0425
A:H28: (F4) [W1] '
A:I28: (F4) 548.354
A:J28: (F4) [W1] '
A:K28: (F4) [W1] @ROUND(G28*@PI/180,6)
A:L28: (F2) [W1] '
A:M28: (F0) [W1] @IF(G28>=0#AND#G28<180,@IF(G28<90,1,2),@IF(G28<270,3,4))
A:N28: (F2) [W1] '
A:O28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@COS(K28),-I28*@COS(@PI-K28)),@IF(M28=3,
-I28*@COS(K28-@PI),I28*@COS(2*@PI-K28)))
A:P28: (F3) [W1] '
A:Q28: (F3)
@IF(M28=1#OR#M28=2,@IF(M28=1,I28*@SIN(K28),I28*@SIN(@PI-K28)),@IF(M28=3,-I
28*@SIN(K28-@PI),-I28*@SIN(2*@PI-K28)))
A:R28: (F3) [W1] '
A:S28: (F3) +C27+O28
A:T28: (F3) [W1] '
A:U28: (F3) +E27+Q28
A:V28: (F4) [W1] '
A:A29: {Page} 'E6
A:B29: [W1] '
A:C29: (F3) +S28
A:D29: (F3) [W1] '
A:E29: (F3) +U28
A:F29: (F4) [W1] '
A:H29: (F4) [W1] '
A:J29: (F4) [W1] '
A:L29: (F2) [W1] '
A:N29: (F2) [W1] '
A:P29: (F3) [W1] '
A:R29: (F3) [W1] '
A:T29: (F3) [W1] '
A:V29: (F4) [W1] '
A:A30: {Page} *
A:B30: [W1] '
A:C30: (F3) *
A:D30: (F3) [W1] '
A:E30: (F3) *
A:F30: (F4) [W1] '
A:G30: (F6) 247.1862
A:H30: (F4) [W1] '

A:I30: (F4) 305
A:J30: (F4) [W1] "
A:K30: (F4) [W1] @ROUND(G30*@PI/180,6)
A:L30: (F2) [W1] "
A:M30: (F0) [W1] @IF(G30>=0#AND#G30<180,@IF(G30<90,1,2),@IF(G30<270,3,4))
A:N30: (F2) [W1] "
A:O30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@COS(K30),-I30*@COS(@PI-K30)),@IF(M30=3,
-I30*@COS(K30-@PI),I30*@COS(2*@PI-K30)))
A:P30: (F3) [W1] "
A:Q30: (F3)
@IF(M30=1#OR#M30=2,@IF(M30=1,I30*@SIN(K30),I30*@SIN(@PI-K30)),@IF(M30=3,-I
30*@SIN(K30-@PI),-I30*@SIN(2*@PI-K30)))
A:R30: (F3) [W1] "
A:S30: (F3) +C29+O30
A:T30: (F3) [W1] "
A:U30: (F3) +E29+Q30
A:V30: (F4) [W1] "
A:A31: {Page} 'E7
A:B31: [W1] "
A:C31: (F3) +S30
A:D31: (F3) [W1] "
A:E31: (F3) +U30
A:F31: (F4) [W1] "
A:H31: (F4) [W1] "
A:J31: (F4) [W1] "
A:L31: (F2) [W1] "
A:N31: (F2) [W1] "
A:P31: (F3) [W1] "
A:R31: (F3) [W1] "
A:T31: (F3) [W1] "
A:V31: (F4) [W1] "
A:A32: {Page} *
A:B32: [W1] "
A:C32: (F3) *
A:D32: (F3) [W1] "
A:E32: (F3) *
A:F32: (F4) [W1] "
A:G32: (F6) 18
A:H32: (F4) [W1] "
A:I32: (F4) 305
A:J32: (F4) [W1] "

A:K32: (F4) [W1] @ROUND(G32*@PI/180,6)

A:L32: (F2) [W1] '|

A:M32: (F0) [W1] @IF(G32>=0#AND#G32<180,@IF(G32<90,1,2),@IF(G32<270,3,4))

A:N32: (F2) [W1] '|

A:O32: (F3)

@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@COS(K32),-I32*@COS(@PI-K32)),@IF(M32=3,-I32*@COS(K32-@PI),I32*@COS(2*@PI-K32)))

A:P32: (F3) [W1] '|

A:Q32: (F3)

@IF(M32=1#OR#M32=2,@IF(M32=1,I32*@SIN(K32),I32*@SIN(@PI-K32)),@IF(M32=3,-I32*@SIN(K32-@PI),-I32*@SIN(2*@PI-K32)))

A:R32: (F3) [W1] '|

A:S32: (F3) +C31+O32

A:T32: (F3) [W1] '|

A:U32: (F3) +E31+Q32

A:V32: (F4) [W1] '|

A:A33: {Page} 'E8

A:B33: [W1] '|

A:C33: (F3) +S32

A:D33: (F3) [W1] '|

A:E33: (F3) +U32

A:F33: (F4) [W1] '|

A:H33: (F4) [W1] '|

A:J33: (F4) [W1] '|

A:L33: (F2) [W1] '|

A:N33: (F2) [W1] '|

A:P33: (F3) [W1] '|

A:R33: (F3) [W1] '|

A:T33: (F3) [W1] '|

A:V33: (F4) [W1] '|

A:A34: {Page} *

A:B34: [W1] '|

A:C34: (F3) *

A:D34: (F3) [W1] '|

A:E34: (F3) *

A:F34: (F4) [W1] '|

A:G34: (F6) 288

A:H34: (F4) [W1] '|

A:I34: (F4) 99.525

A:J34: (F4) [W1] '|

A:K34: (F4) [W1] @ROUND(G34*@PI/180,6)

A:L34: (F2) [W1] '
A:M34: (F0) [W1] @IF(G34>=0#AND#G34<180,@IF(G34<90,1,2),@IF(G34<270,3,4))
A:N34: (F2) [W1] '
A:O34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@COS(K34),-I34*@COS(@PI-K34)),@IF(M34=3,
-I34*@COS(K34-@PI),I34*@COS(2*@PI-K34)))
A:P34: (F3) [W1] '
A:Q34: (F3)
@IF(M34=1#OR#M34=2,@IF(M34=1,I34*@SIN(K34),I34*@SIN(@PI-K34)),@IF(M34=3,-I
34*@SIN(K34-@PI),-I34*@SIN(2*@PI-K34)))
A:R34: (F3) [W1] '
A:S34: (F3) +C33+O34
A:T34: (F3) [W1] '
A:U34: (F3) +E33+Q34
A:V34: (F4) [W1] '
A:A35: {Page} 'H5
A:B35: [W1] '
A:C35: (F3) +S34
A:D35: (F3) [W1] '
A:E35: (F3) +U34
A:F35: (F4) [W1] '
A:H35: (F4) [W1] '
A:J35: (F4) [W1] '
A:L35: (F2) [W1] '
A:N35: (F2) [W1] '
A:P35: (F3) [W1] '
A:R35: (F3) [W1] '
A:T35: (F3) [W1] '
A:V35: (F4) [W1] '
A:A36: {Page} *
A:B36: [W1] '
A:C36: (F3) *
A:D36: (F3) [W1] '
A:E36: (F3) *
A:F36: (F4) [W1] '
A:G36: (F6) 288
A:H36: (F4) [W1] '
A:I36: (F4) 726.997
A:J36: (F4) [W1] '
A:K36: (F4) [W1] @ROUND(G36*@PI/180,6)
A:L36: (F2) [W1] '
A:M36: (F0) [W1] @IF(G36>=0#AND#G36<180,@IF(G36<90,1,2),@IF(G36<270,3,4))

A:N36: (F2) [W1] '
A:O36: (F3)
@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@COS(K36),-I36*@COS(@PI-K36)),@IF(M36=3,
-I36*@COS(K36-@PI),I36*@COS(2*@PI-K36)))
A:P36: (F3) [W1] '
A:Q36: (F3)
@IF(M36=1#OR#M36=2,@IF(M36=1,I36*@SIN(K36),I36*@SIN(@PI-K36)),@IF(M36=3,-I
36*@SIN(K36-@PI),-I36*@SIN(2*@PI-K36)))
A:R36: (F3) [W1] '
A:S36: (F3) +C35+O36
A:T36: (F3) [W1] '
A:U36: (F3) +E35+Q36
A:V36: (F4) [W1] '
A:A37: {Page} 'E9
A:B37: [W1] '
A:C37: (F3) +S36
A:D37: (F3) [W1] '
A:E37: (F3) +U36
A:F37: [W1] '
A:H37: [W1] '
A:I37: [W1] '
A:L37: [W1] '
A:N37: [W1] '
A:P37: (F3) [W1] '
A:R37: (F3) [W1] '
A:T37: (F3) [W1] '
A:V37: (F4) [W1] '
A:A38: {Page} *
A:B38: [W1] '
A:C38: (F3) *
A:D38: (F3) [W1] '
A:E38: (F3) *
A:F38: (F4) [W1] '
A:G38: (F6) 333
A:H38: (F4) [W1] '
A:I38: (F6) 94.802
A:J38: (F4) [W1] '
A:K38: (F4) [W1] @ROUND(G38*@PI/180,6)
A:L38: (F2) [W1] '
A:M38: (F0) [W1] @IF(G38>=0#AND#G38<180,@IF(G38<90,1,2),@IF(G38<270,3,4))
A:N38: (F2) [W1] '
A:O38: (F3)

@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@COS(K38),-I38*@COS(@PI-K38)),@IF(M38=3,-I38*@COS(K38-@PI),I38*@COS(2*@PI-K38)))

A:P38: (F3) [W1] "

A:Q38: (F3)

@IF(M38=1#OR#M38=2,@IF(M38=1,I38*@SIN(K38),I38*@SIN(@PI-K38)),@IF(M38=3,-I38*@SIN(K38-@PI),-I38*@SIN(2*@PI-K38)))

A:R38: (F3) [W1] "

A:S38: (F3) +C37+O38

A:T38: (F3) [W1] "

A:U38: (F3) +E37+Q38

A:V38: (F4) [W1] "

A:A39: {Page} 'F0

A:B39: [W1] "

A:C39: (F3) +S38

A:D39: (F3) [W1] "

A:E39: (F3) +U38

A:F39: (F4) [W1] "

A:H39: (F4) [W1] "

A:J39: (F4) [W1] "

A:L39: (F2) [W1] "

A:N39: (F2) [W1] "

A:P39: (F3) [W1] "

A:R39: (F3) [W1] "

A:T39: (F3) [W1] "

A:V39: (F4) [W1] "

A:A40: {Page} *

A:B40: [W1] "

A:C40: (F3) *

A:D40: (F3) [W1] "

A:E40: (F3) *

A:F40: (F4) [W1] "

A:G40: (F6) 63.0002

A:H40: (F4) [W1] "

A:I40: (F4) 305

A:J40: (F4) [W1] "

A:K40: (F4) [W1] @ROUND(G40*@PI/180,6)

A:L40: (F2) [W1] "

A:M40: (F0) [W1] @IF(G40>=0#AND#G40<180,@IF(G40<90,1,2),@IF(G40<270,3,4))

A:N40: (F2) [W1] "

A:O40: (F3)

@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@COS(K40),-I40*@COS(@PI-K40)),@IF(M40=3,-I40*@COS(K40-@PI),I40*@COS(2*@PI-K40)))

A:P40: (F3) [W1] "

A:Q40: (F3)

@IF(M40=1#OR#M40=2,@IF(M40=1,I40*@SIN(K40),I40*@SIN(@PI-K40)),@IF(M40=3,-I40*@SIN(K40-@PI),-I40*@SIN(2*@PI-K40)))

A:R40: (F3) [W1] "

A:S40: (F3) +C39+O40

A:T40: (F3) [W1] "

A:U40: (F3) +E39+Q40

A:V40: (F4) [W1] "

A:A41: {Page} 'F1

A:B41: [W1] "

A:C41: (F3) +S40

A:D41: (F3) [W1] "

A:E41: (F3) +U40

A:F41: (F4) [W1] "

A:H41: (F4) [W1] "

A:J41: (F4) [W1] "

A:L41: (F2) [W1] "

A:N41: (F2) [W1] "

A:P41: (F3) [W1] "

A:R41: (F3) [W1] "

A:T41: (F3) [W1] "

A:V41: (F4) [W1] "

A:A42: {Page} *

A:B42: [W1] "

A:C42: (F3) *

A:D42: (F3) [W1] "

A:E42: (F3) *

A:F42: (F4) [W1] "

A:G42: (F6) 76.7668

A:H42: (F4) [W1] "

A:I42: (F4) 305

A:J42: (F4) [W1] "

A:K42: (F4) [W1] @ROUND(G42*@PI/180,6)

A:L42: (F2) [W1] "

A:M42: (F0) [W1] @IF(G42>=0#AND#G42<180,@IF(G42<90,1,2),@IF(G42<270,3,4))

A:N42: (F2) [W1] "

A:O42: (F3)

@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@COS(K42),-I42*@COS(@PI-K42)),@IF(M42=3,-I42*@COS(K42-@PI),I42*@COS(2*@PI-K42)))

A:P42: (F3) [W1] "

A:Q42: (F3)

@IF(M42=1#OR#M42=2,@IF(M42=1,I42*@SIN(K42),I42*@SIN(@PI-K42)),@IF(M42=3,-I42*@SIN(K42-@PI),-I42*@SIN(2*@PI-K42)))

A:R42: (F3) [W1] "

A:S42: (F3) +C41+O42

A:T42: (F3) [W1] "

A:U42: (F3) +E41+Q42

A:V42: (F4) [W1] "

A:A43: {Page} 'F2

A:B43: [W1] "

A:C43: (F3) +S42

A:D43: (F3) [W1] "

A:E43: (F3) +U42

A:F43: (F4) [W1] "

A:H43: (F4) [W1] "

A:J43: (F4) [W1] "

A:L43: (F2) [W1] "

A:N43: (F2) [W1] "

A:P43: (F3) [W1] "

A:R43: (F3) [W1] "

A:T43: (F3) [W1] "

A:V43: (F4) [W1] "

A:A44: {Page} *

A:B44: [W1] "

A:C44: (F3) *

A:D44: (F3) [W1] "

A:E44: (F3) *

A:F44: (F4) [W1] "

A:G44: (F6) 166.7668

A:H44: (F4) [W1] "

A:I44: (F4) 1416.851

A:J44: (F4) [W1] "

A:K44: (F4) [W1] @ROUND(G44*@PI/180,6)

A:L44: (F2) [W1] "

A:M44: (F0) [W1] @IF(G44>=0#AND#G44<180,@IF(G44<90,1,2),@IF(G44<270,3,4))

A:N44: (F2) [W1] "

A:O44: (F3)

@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@COS(K44),-I44*@COS(@PI-K44)),@IF(M44=3,-I44*@COS(K44-@PI),I44*@COS(2*@PI-K44)))

A:P44: (F3) [W1] "

A:Q44: (F3)

@IF(M44=1#OR#M44=2,@IF(M44=1,I44*@SIN(K44),I44*@SIN(@PI-K44)),@IF(M44=3,-I44*@SIN(K44-@PI),-I44*@SIN(2*@PI-K44)))

A:R44: (F3) [W1] '
A:S44: (F3) +C43+O44
A:T44: (F3) [W1] '
A:U44: (F3) +E43+Q44
A:V44: (F4) [W1] '
A:A45: {Page} F3
A:B45: [W1] '
A:C45: (F3) +S44
A:D45: (F3) [W1] '
A:E45: (F3) +U44
A:F45: (F4) [W1] '
A:H45: (F4) [W1] '
A:J45: (F4) [W1] '
A:L45: (F2) [W1] '
A:N45: (F2) [W1] '
A:P45: (F3) [W1] '
A:R45: (F3) [W1] '
A:T45: (F3) [W1] '
A:V45: (F4) [W1] '
A:A46: {Page} *
A:B46: [W1] '
A:C46: (F3) *
A:D46: (F3) [W1] '
A:E46: (F3) *
A:F46: (F4) [W1] '
A:G46: (F6) 256.7664
A:H46: (F4) [W1] '
A:I46: (F4) 305
A:J46: (F4) [W1] '
A:K46: (F4) [W1] @ROUND(G46*@PI/180,6)
A:L46: (F2) [W1] '
A:M46: (F0) [W1] @IF(G46>=0#AND#G46<180,@IF(G46<90,1,2),@IF(G46<270,3,4))
A:N46: (F2) [W1] '
A:O46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@COS(K46),-I46*@COS(@PI-K46)),@IF(M46=3,
-I46*@COS(K46-@PI),I46*@COS(2*@PI-K46)))
A:P46: (F3) [W1] '
A:Q46: (F3)
@IF(M46=1#OR#M46=2,@IF(M46=1,I46*@SIN(K46),I46*@SIN(@PI-K46)),@IF(M46=3,-I
46*@SIN(K46-@PI),-I46*@SIN(2*@PI-K46)))
A:R46: (F3) [W1] '
A:S46: (F3) +C45+O46

A:T46: (F3) [W1] '
A:U46: (F3) +E45+Q46
A:V46: (F4) [W1] '
A:A47: {Page} 'F4
A:B47: [W1] '
A:C47: (F3) +S46
A:D47: (F3) [W1] '
A:E47: (F3) +U46
A:F47: (F4) [W1] '
A:H47: (F4) [W1] '
A:J47: (F4) [W1] '
A:L47: (F2) [W1] '
A:N47: (F2) [W1] '
A:P47: (F3) [W1] '
A:R47: (F3) [W1] '
A:T47: (F3) [W1] '
A:V47: (F4) [W1] '
A:A48: {Page} *
A:B48: [W1] '
A:C48: (F3) *
A:D48: (F3) [W1] '
A:E48: (F3) *
A:F48: (F4) [W1] '
A:G48: (F6) 93
A:H48: (F4) [W1] '
A:I48: (F4) 305
A:J48: (F4) [W1] '
A:K48: (F4) [W1] @ROUND(G48*@PI/180,6)
A:L48: (F2) [W1] '
A:M48: (F0) [W1] @IF(G48>=0#AND#G48<180,@IF(G48<90,1,2),@IF(G48<270,3,4))
A:N48: (F2) [W1] '
A:O48: (F3)
@IF(M48=1#OR#M48=2,@IF(M48=1,I48*@COS(K48),-I48*@COS(@PI-K48)),@IF(M48=3,
-I48*@COS(K48-@PI),I48*@COS(2*@PI-K48)))
A:P48: (F3) [W1] '
A:Q48: (F3)
@IF(M48=1#OR#M48=2,@IF(M48=1,I48*@SIN(K48),I48*@SIN(@PI-K48)),@IF(M48=3,-I
48*@SIN(K48-@PI),-I48*@SIN(2*@PI-K48)))
A:R48: (F3) [W1] '
A:S48: (F3) +C47+O48
A:T48: (F3) [W1] '
A:U48: (F3) +E47+Q48

A:V48: (F4) [W1] '
A:A49: {Page} 'F5
A:B49: [W1] '
A:C49: (F3) +S48
A:D49: (F3) [W1] '
A:E49: (F3) +U48
A:F49: (F4) [W1] '
A:H49: (F4) [W1] '
A:J49: (F4) [W1] '
A:L49: (F2) [W1] '
A:N49: (F2) [W1] '
A:P49: (F3) [W1] '
A:R49: (F3) [W1] '
A:T49: (F3) [W1] '
A:V49: (F4) [W1] '
A:A50: {Page} *
A:B50: [W1] '
A:C50: (F3) *
A:D50: (F3) [W1] '
A:E50: (F3) *
A:F50: (F4) [W1] '
A:G50: (F6) 183
A:H50: (F4) [W1] '
A:I50: (F4) 364.707
A:J50: (F4) [W1] '
A:K50: (F4) [W1] @ROUND(G50*@PI/180,6)
A:L50: (F2) [W1] '
A:M50: (F0) [W1] @IF(G50>=0#AND#G50<180,@IF(G50<90,1,2),@IF(G50<270,3,4))
A:N50: (F2) [W1] '
A:O50: (F3)
@IF(M50=1#OR#M50=2,@IF(M50=1,I50*@COS(K50),-I50*@COS(@PI-K50)),@IF(M50=3,-I50*@COS(K50-@PI),I50*@COS(2*@PI-K50)))
A:P50: (F3) [W1] '
A:Q50: (F3)
@IF(M50=1#OR#M50=2,@IF(M50=1,I50*@SIN(K50),I50*@SIN(@PI-K50)),@IF(M50=3,-I50*@SIN(K50-@PI),-I50*@SIN(2*@PI-K50)))
A:R50: (F3) [W1] '
A:S50: (F3) +C49+O50
A:T50: (F3) [W1] '
A:U50: (F3) +E49+Q50
A:V50: (F4) [W1] '
A:A51: {Page} 'H1

A:B51: [W1] "
A:C51: (F3) +S50
A:D51: (F3) [W1] "
A:E51: (F3) +U50
A:F51: (F4) [W1] "
A:H51: (F4) [W1] "
A:J51: (F4) [W1] "
A:L51: (F2) [W1] "
A:N51: (F2) [W1] "
A:P51: (F3) [W1] "
A:R51: (F3) [W1] "
A:T51: (F3) [W1] "
A:V51: (F4) [W1] "
A:A52: {Page} *
A:B52: [W1] "
A:C52: (F3) *
A:D52: (F3) [W1] "
A:E52: (F3) *
A:F52: (F4) [W1] "
A:G52: (F6) 288.0005
A:H52: (F4) [W1] "
A:I52: (F4) 22.228
A:J52: (F4) [W1] "
A:K52: (F4) [W1] @ROUND(G52*@PI/180,6)
A:L52: (F2) [W1] "
A:M52: (F0) [W1] @IF(G52>=0#AND#G52<180,@IF(G52<90,1,2),@IF(G52<270,3,4))
A:N52: (F2) [W1] "
A:O52: (F3)
@IF(M52=1#OR#M52=2,@IF(M52=1,I52*@COS(K52),-I52*@COS(@PI-K52)),@IF(M52=3,
-I52*@COS(K52-@PI),I52*@COS(2*@PI-K52)))
A:P52: (F3) [W1] "
A:Q52: (F3)
@IF(M52=1#OR#M52=2,@IF(M52=1,I52*@SIN(K52),I52*@SIN(@PI-K52)),@IF(M52=3,-I
52*@SIN(K52-@PI),-I52*@SIN(2*@PI-K52)))
A:R52: (F3) [W1] "
A:S52: (F3) +C51+O52
A:T52: (F3) [W1] "
A:U52: (F3) +E51+Q52
A:V52: (F4) [W1] "
A:A53: {Page} 'H2
A:B53: [W1] "
A:C53: (F3) +S52

A:D53: (F3) [W1] '
A:E53: (F3) +U52
A:F53: (F4) [W1] '
A:H53: (F4) [W1] '
A:J53: (F4) [W1] '
A:L53: (F2) [W1] '
A:N53: (F2) [W1] '
A:P53: (F3) [W1] '
A:R53: (F3) [W1] '
A:T53: (F3) [W1] '
A:V53: (F4) [W1] '
A:A54: {Page} *
A:B54: [W1] '
A:C54: (F3) *
A:D54: (F3) [W1] '
A:E54: (F3) *
A:F54: (F4) [W1] '
A:G54: (F6) 18.0008
A:H54: (F4) [W1] '
A:I54: (F4) 25
A:J54: (F4) [W1] '
A:K54: (F4) [W1] @ROUND(G54*@PI/180,6)
A:L54: (F2) [W1] '
A:M54: (F0) [W1] @IF(G54>=0#AND#G54<180,@IF(G54<90,1,2),@IF(G54<270,3,4))
A:N54: (F2) [W1] '
A:O54: (F3)
@IF(M54=1#OR#M54=2,@IF(M54=1,I54*@COS(K54),-I54*@COS(@PI-K54)),@IF(M54=3,
-I54*@COS(K54-@PI),I54*@COS(2*@PI-K54)))
A:P54: (F3) [W1] '
A:Q54: (F3)
@IF(M54=1#OR#M54=2,@IF(M54=1,I54*@SIN(K54),I54*@SIN(@PI-K54)),@IF(M54=3,-I
54*@SIN(K54-@PI),-I54*@SIN(2*@PI-K54)))
A:R54: (F3) [W1] '
A:S54: (F3) +C53+O54
A:T54: (F3) [W1] '
A:U54: (F3) +E53+Q54
A:V54: (F4) [W1] '
A:A55: {Page} 'H3
A:B55: [W1] '
A:C55: (F3) +S54
A:D55: (F3) [W1] '
A:E55: (F3) +U54

A:F55: (F4) [W1] "
A:H55: (F4) [W1] "
A:J55: (F4) [W1] "
A:L55: (F2) [W1] "
A:N55: (F2) [W1] "
A:P55: (F3) [W1] "
A:R55: (F3) [W1] "
A:T55: (F3) [W1] "
A:V55: (F4) [W1] "
A:A56: {Page} *
A:B56: [W1] "
A:C56: (F3) *
A:D56: (F3) [W1] "
A:E56: (F3) *
A:F56: (F4) [W1] "
A:G56: (F6) 273.0013
A:H56: (F4) [W1] "
A:I56: (F4) 25
A:J56: (F4) [W1] "
A:K56: (F4) [W1] @ROUND(G56*@PI/180,6)
A:L56: (F2) [W1] "
A:M56: (F0) [W1] @IF(G56>=0#AND#G56<180,@IF(G56<90,1,2),@IF(G56<270,3,4))
A:N56: (F2) [W1] "
A:O56: (F3)
@IF(M56=1#OR#M56=2,@IF(M56=1,I56*@COS(K56),-I56*@COS(@PI-K56)),@IF(M56=3,
-I56*@COS(K56-@PI),I56*@COS(2*@PI-K56)))
A:P56: (F3) [W1] "
A:Q56: (F3)
@IF(M56=1#OR#M56=2,@IF(M56=1,I56*@SIN(K56),I56*@SIN(@PI-K56)),@IF(M56=3,-I
56*@SIN(K56-@PI),-I56*@SIN(2*@PI-K56)))
A:R56: (F3) [W1] "
A:S56: (F3) +C55+O56
A:T56: (F3) [W1] "
A:U56: (F3) +E55+Q56
A:V56: (F4) [W1] "
A:A57: {Page} 'H4
A:B57: [W1] "
A:C57: (F3) +S56
A:D57: (F3) [W1] "
A:E57: (F3) +U56
A:F57: (F4) [W1] "
A:H57: (F4) [W1] "

A:J57: (F4) [W1] '
A:L57: (F2) [W1] '
A:N57: (F2) [W1] '
A:P57: (F3) [W1] '
A:R57: (F3) [W1] '
A:T57: (F3) [W1] '
A:V57: (F4) [W1] '
A:A58: {Page} *
A:B58: [W1] '
A:C58: (F3) *
A:D58: (F3) [W1] '
A:E58: (F3) *
A:F58: (F4) [W1] '
A:G58: (F6) 183
A:H58: (F4) [W1] '
A:I58: (F4) 1211.274
A:J58: (F4) [W1] '
A:K58: (F4) [W1] @ROUND(G58*@PI/180,6)
A:L58: (F2) [W1] '
A:M58: (F0) [W1] @IF(G58>=0#AND#G58<180,@IF(G58<90,1,2),@IF(G58<270,3,4))
A:N58: (F2) [W1] '
A:O58: (F3)
@IF(M58=1#OR#M58=2,@IF(M58=1,I58*@COS(K58),-I58*@COS(@PI-K58)),@IF(M58=3,
-I58*@COS(K58-@PI),I58*@COS(2*@PI-K58)))
A:P58: (F3) [W1] '
A:Q58: (F3)
@IF(M58=1#OR#M58=2,@IF(M58=1,I58*@SIN(K58),I58*@SIN(@PI-K58)),@IF(M58=3,-I
58*@SIN(K58-@PI),-I58*@SIN(2*@PI-K58)))
A:R58: (F3) [W1] '
A:S58: (F3) +C57+O58
A:T58: (F3) [W1] '
A:U58: (F3) +E57+Q58
A:V58: (F4) [W1] '
A:A59: {Page} 'D3
A:B59: [W1] '
A:C59: (F3) +S58
A:D59: (F3) [W1] '
A:E59: (F3) +U58
A:F59: (F4) [W1] '
A:H59: (F4) [W1] '
A:J59: (F4) [W1] '
A:L59: (F2) [W1] '

A:N59: (F2) [W1] '
A:P59: (F3) [W1] '
A:R59: (F3) [W1] '
A:T59: (F3) [W1] '
A:V59: (F4) [W1] '
A:A60: {Page} *
A:B60: [W1] '
A:C60: (F3) *
A:D60: (F3) [W1] '
A:E60: (F3) *
A:F60: (F4) [W1] '
A:G60: (F6) 183
A:H60: (F4) [W1] '
A:I60: (F4) 613.298
A:J60: (F4) [W1] '
A:K60: (F4) [W1] @ROUND(G60*@PI/180,6)
A:L60: (F2) [W1] '
A:M60: (F0) [W1] @IF(G60>=0#AND#G60<180,@IF(G60<90,1,2),@IF(G60<270,3,4))
A:N60: (F2) [W1] '
A:O60: (F3)
@IF(M60=1#OR#M60=2,@IF(M60=1,I60*@COS(K60),-I60*@COS(@PI-K60)),@IF(M60=3,
-I60*@COS(K60-@PI),I60*@COS(2*@PI-K60)))
A:P60: (F3) [W1] '
A:Q60: (F3)
@IF(M60=1#OR#M60=2,@IF(M60=1,I60*@SIN(K60),I60*@SIN(@PI-K60)),@IF(M60=3,-I
60*@SIN(K60-@PI),-I60*@SIN(2*@PI-K60)))
A:R60: (F3) [W1] '
A:S60: (F3) +C59+O60
A:T60: (F3) [W1] '
A:U60: (F3) +E59+Q60
A:V60: (F4) [W1] '
A:A61: {Page} 'F6
A:B61: [W1] '
A:C61: (F3) +S60
A:D61: (F3) [W1] '
A:E61: (F3) +U60
A:F61: (F4) [W1] '
A:H61: (F4) [W1] '
A:J61: (F4) [W1] '
A:L61: (F2) [W1] '
A:N61: (F2) [W1] '
A:P61: (F3) [W1] '

A:R61: (F3) [W1] '
A:T61: (F3) [W1] '
A:V61: (F4) [W1] '
A:A62: {Page} *
A:B62: [W1] '
A:C62: (F3) *
A:D62: (F3) [W1] '
A:E62: (F3) *
A:F62: (F4) [W1] '
A:G62: (F6) 273
A:H62: (F4) [W1] '
A:I62: (F4) 305
A:J62: (F4) [W1] '
A:K62: (F4) [W1] @ROUND(G62*@PI/180,6)
A:L62: (F2) [W1] '
A:M62: (F0) [W1] @IF(G62>=0#AND#G62<180,@IF(G62<90,1,2),@IF(G62<270,3,4))
A:N62: (F2) [W1] '
A:O62: (F3)
@IF(M62=1#OR#M62=2,@IF(M62=1,I62*@COS(K62),-I62*@COS(@PI-K62)),@IF(M62=3,
-I62*@COS(K62-@PI),I62*@COS(2*@PI-K62)))
A:P62: (F3) [W1] '
A:Q62: (F3)
@IF(M62=1#OR#M62=2,@IF(M62=1,I62*@SIN(K62),I62*@SIN(@PI-K62)),@IF(M62=3,-I
62*@SIN(K62-@PI),-I62*@SIN(2*@PI-K62)))
A:R62: (F3) [W1] '
A:S62: (F3) +C61+O62
A:T62: (F3) [W1] '
A:U62: (F3) +E61+Q62
A:V62: (F4) [W1] '
A:A63: {Page} F7
A:B63: [W1] '
A:C63: (F3) +S62
A:D63: (F3) [W1] '
A:E63: (F3) +U62
A:F63: (F4) [W1] '
A:H63: (F4) [W1] '
A:J63: (F4) [W1] '
A:L63: (F2) [W1] '
A:N63: (F2) [W1] '
A:P63: (F3) [W1] '
A:R63: (F3) [W1] '
A:T63: (F3) [W1] '

A:V63: (F4) [W1] '
A:A64: {Page} *
A:B64: [W1] '
A:C64: (F3) *
A:D64: (F3) [W1] '
A:E64: (F3) *
A:F64: (F4) [W1] '
A:G64: (F6) 100.7428
A:H64: (F4) [W1] '
A:I64: (F4) 305
A:J64: (F4) [W1] '
A:K64: (F4) [W1] @ROUND(G64*@PI/180,6)
A:L64: (F2) [W1] '
A:M64: (F0) [W1] @IF(G64>=0#AND#G64<180,@IF(G64<90,1,2),@IF(G64<270,3,4))
A:N64: (F2) [W1] '
A:O64: (F3)
@IF(M64=1#OR#M64=2,@IF(M64=1,I64*@COS(K64),-I64*@COS(@PI-K64)),@IF(M64=3,
-I64*@COS(K64-@PI),I64*@COS(2*@PI-K64)))
A:P64: (F3) [W1] '
A:Q64: (F3)
@IF(M64=1#OR#M64=2,@IF(M64=1,I64*@SIN(K64),I64*@SIN(@PI-K64)),@IF(M64=3,-I
64*@SIN(K64-@PI),-I64*@SIN(2*@PI-K64)))
A:R64: (F3) [W1] '
A:S64: (F3) +C63+O64
A:T64: (F3) [W1] '
A:U64: (F3) +E63+Q64
A:V64: (F4) [W1] '
A:A65: {Page} 'F8
A:B65: [W1] '
A:C65: (F3) +S64
A:D65: (F3) [W1] '
A:E65: (F3) +U64
A:F65: (F4) [W1] '
A:H65: (F4) [W1] '
A:J65: (F4) [W1] '
A:L65: (F2) [W1] '
A:N65: (F2) [W1] '
A:P65: (F3) [W1] '
A:R65: (F3) [W1] '
A:T65: (F3) [W1] '
A:V65: (F4) [W1] '
A:A66: {Page} *

A:B66: [W1] '
A:C66: (F3) *
A:D66: (F3) [W1] '
A:E66: (F3) *
A:F66: (F4) [W1] '
A:G66: (F6) 190.741
A:H66: (F4) [W1] '
A:I66: (F4) 1580.998
A:J66: (F4) [W1] '
A:K66: (F4) [W1] @ROUND(G66*@PI/180,6)
A:L66: (F2) [W1] '
A:M66: (F0) [W1] @IF(G66>=0#AND#G66<180,@IF(G66<90,1,2),@IF(G66<270,3,4))
A:N66: (F2) [W1] '
A:O66: (F3)
@IF(M66=1#OR#M66=2,@IF(M66=1,I66*@COS(K66),-I66*@COS(@PI-K66)),@IF(M66=3,
-I66*@COS(K66-@PI),I66*@COS(2*@PI-K66)))
A:P66: (F3) [W1] '
A:Q66: (F3)
@IF(M66=1#OR#M66=2,@IF(M66=1,I66*@SIN(K66),I66*@SIN(@PI-K66)),@IF(M66=3,-I
66*@SIN(K66-@PI),-I66*@SIN(2*@PI-K66)))
A:R66: (F3) [W1] '
A:S66: (F3) +C65+O66
A:T66: (F3) [W1] '
A:U66: (F3) +E65+Q66
A:V66: (F4) [W1] '
A:A67: {Page} 'F9
A:B67: [W1] '
A:C67: (F3) +S66
A:D67: (F3) [W1] '
A:E67: (F3) +U66
A:F67: (F4) [W1] '
A:H67: (F4) [W1] '
A:J67: (F4) [W1] '
A:L67: (F2) [W1] '
A:N67: (F2) [W1] '
A:P67: (F3) [W1] '
A:R67: (F3) [W1] '
A:T67: (F3) [W1] '
A:V67: (F4) [W1] '
A:A68: {Page} *
A:B68: [W1] '
A:C68: (F3) *

A:D68: (F3) [W1] '
A:E68: (F3) *
A:F68: (F4) [W1] '
A:G68: (F6) 280.7411
A:H68: (F4) [W1] '
A:I68: (F4) 304.8
A:J68: (F4) [W1] '
A:K68: (F4) [W1] @ROUND(G68*@PI/180,6)
A:L68: (F2) [W1] '
A:M68: (F0) [W1] @IF(G68>=0#AND#G68<180,@IF(G68<90,1,2),@IF(G68<270,3,4))
A:N68: (F2) [W1] '
A:O68: (F3)
@IF(M68=1#OR#M68=2,@IF(M68=1,I68*@COS(K68),-I68*@COS(@PI-K68)),@IF(M68=3,
-I68*@COS(K68-@PI),I68*@COS(2*@PI-K68)))
A:P68: (F3) [W1] '
A:Q68: (F3)
@IF(M68=1#OR#M68=2,@IF(M68=1,I68*@SIN(K68),I68*@SIN(@PI-K68)),@IF(M68=3,-I
68*@SIN(K68-@PI),-I68*@SIN(2*@PI-K68)))
A:R68: (F3) [W1] '
A:S68: (F3) +C67+O68
A:T68: (F3) [W1] '
A:U68: (F3) +E67+Q68
A:V68: (F4) [W1] '
A:A69: {Page} 'G0
A:B69: [W1] '
A:C69: (F3) +S68
A:D69: (F3) [W1] '
A:E69: (F3) +U68
A:F69: (F4) [W1] '
A:H69: (F4) [W1] '
A:J69: (F4) [W1] '
A:L69: (F2) [W1] '
A:N69: (F2) [W1] '
A:P69: (F3) [W1] '
A:R69: (F3) [W1] '
A:T69: (F3) [W1] '
A:V69: (F4) [W1] '
A:A70: {Page} *
A:B70: [W1] '
A:C70: (F3) *
A:D70: (F3) [W1] '
A:E70: (F3) *

A:F70: (F4) [W1] '
A:G70: (F6) 316.0212
A:H70: (F4) [W1] '
A:I70: (F4) 304.8
A:J70: (F4) [W1] '
A:K70: (F4) [W1] @ROUND(G70*@PI/180,6)
A:L70: (F2) [W1] '
A:M70: (F0) [W1] @IF(G70>=0#AND#G70<180,@IF(G70<90,1,2),@IF(G70<270,3,4))
A:N70: (F2) [W1] '
A:O70: (F3)
@IF(M70=1#OR#M70=2,@IF(M70=1,I70*@COS(K70),-I70*@COS(@PI-K70)),@IF(M70=3,
-I70*@COS(K70-@PI),I70*@COS(2*@PI-K70)))
A:P70: (F3) [W1] '
A:Q70: (F3)
@IF(M70=1#OR#M70=2,@IF(M70=1,I70*@SIN(K70),I70*@SIN(@PI-K70)),@IF(M70=3,-I
70*@SIN(K70-@PI),-I70*@SIN(2*@PI-K70)))
A:R70: (F3) [W1] '
A:S70: (F3) +C69+O70
A:T70: (F3) [W1] '
A:U70: (F3) +E69+Q70
A:V70: (F4) [W1] '
A:A71: {Page} 'G1
A:B71: [W1] '
A:C71: (F3) +S70
A:D71: (F3) [W1] '
A:E71: (F3) +U70
A:F71: (F4) [W1] '
A:H71: (F4) [W1] '
A:J71: (F4) [W1] '
A:L71: (F2) [W1] '
A:N71: (F2) [W1] '
A:P71: (F3) [W1] '
A:R71: (F3) [W1] '
A:T71: (F3) [W1] '
A:V71: (F4) [W1] '
A:A72: {Page} *
A:B72: [W1] '
A:C72: (F3) *
A:D72: (F3) [W1] '
A:E72: (F3) *
A:F72: (F4) [W1] '
A:G72: (F6) 46.0209

A:H72: (F4) [W1] '
A:I72: (F4) 272.957
A:J72: (F4) [W1] '
A:K72: (F4) [W1] @ROUND(G72*@PI/180,6)
A:L72: (F2) [W1] '
A:M72: (F0) [W1] @IF(G72>=0#AND#G72<180,@IF(G72<90,1,2),@IF(G72<270,3,4))
A:N72: (F2) [W1] '
A:O72: (F3)
@IF(M72=1#OR#M72=2,@IF(M72=1,I72*@COS(K72),-I72*@COS(@PI-K72)),@IF(M72=3,
-I72*@COS(K72-@PI),I72*@COS(2*@PI-K72)))
A:P72: (F3) [W1] '
A:Q72: (F3)
@IF(M72=1#OR#M72=2,@IF(M72=1,I72*@SIN(K72),I72*@SIN(@PI-K72)),@IF(M72=3,-I
72*@SIN(K72-@PI),-I72*@SIN(2*@PI-K72)))
A:R72: (F3) [W1] '
A:S72: (F3) +C71+O72
A:T72: (F3) [W1] '
A:U72: (F3) +E71+Q72
A:V72: (F4) [W1] '
A:A73: {Page} 'G2
A:B73: [W1] '
A:C73: (F3) +S72
A:D73: (F3) [W1] '
A:E73: (F3) +U72
A:F73: (F4) [W1] '
A:H73: (F4) [W1] '
A:J73: (F4) [W1] '
A:L73: (F2) [W1] '
A:N73: (F2) [W1] '
A:P73: (F3) [W1] '
A:R73: (F3) [W1] '
A:T73: (F3) [W1] '
A:V73: (F4) [W1] '
A:A74: {Page} *
A:B74: [W1] '
A:C74: (F3) *
A:D74: (F3) [W1] '
A:E74: (F3) *
A:F74: (F4) [W1] '
A:G74: (F6) 108
A:H74: (F4) [W1] '
A:I74: (F4) 409.6

A:J74: (F4) [W1] '
A:K74: (F4) [W1] @ROUND(G74*@PI/180,6)
A:L74: (F2) [W1] '
A:M74: (F0) [W1] @IF(G74>=0#AND#G74<180,@IF(G74<90,1,2),@IF(G74<270,3,4))
A:N74: (F2) [W1] '
A:O74: (F3)
@IF(M74=1#OR#M74=2,@IF(M74=1,I74*@COS(K74),-I74*@COS(@PI-K74)),@IF(M74=3,
-I74*@COS(K74-@PI),I74*@COS(2*@PI-K74)))
A:P74: (F3) [W1] '
A:Q74: (F3)
@IF(M74=1#OR#M74=2,@IF(M74=1,I74*@SIN(K74),I74*@SIN(@PI-K74)),@IF(M74=3,-I
74*@SIN(K74-@PI),-I74*@SIN(2*@PI-K74)))
A:R74: (F3) [W1] '
A:S74: (F3) +C73+O74
A:T74: (F3) [W1] '
A:U74: (F3) +E73+Q74
A:V74: (F4) [W1] '
A:A75: {Page} 'G3
A:B75: [W1] '
A:C75: (F3) +S74
A:D75: (F3) [W1] '
A:E75: (F3) +U74
A:F75: (F4) [W1] '
A:H75: (F4) [W1] '
A:J75: (F4) [W1] '
A:L75: (F2) [W1] '
A:N75: (F2) [W1] '
A:P75: (F3) [W1] '
A:R75: (F3) [W1] '
A:T75: (F3) [W1] '
A:V75: (F4) [W1] '
A:A76: {Page} *
A:B76: [W1] '
A:C76: (F3) *
A:D76: (F3) [W1] '
A:E76: (F3) *
A:F76: (F4) [W1] '
A:G76: (F6) 18
A:H76: (F4) [W1] '
A:I76: (F4) 305
A:J76: (F4) [W1] '
A:K76: (F4) [W1] @ROUND(G76*@PI/180,6)

A:L76: (F2) [W1] '
A:M76: (F0) [W1] @IF(G76>=0#AND#G76<180,@IF(G76<90,1,2),@IF(G76<270,3,4))
A:N76: (F2) [W1] '
A:O76: (F3)
@IF(M76=1#OR#M76=2,@IF(M76=1,I76*@COS(K76),-I76*@COS(@PI-K76)),@IF(M76=3,-I76*@COS(K76-@PI),I76*@COS(2*@PI-K76)))
A:P76: (F3) [W1] '
A:Q76: (F3)
@IF(M76=1#OR#M76=2,@IF(M76=1,I76*@SIN(K76),I76*@SIN(@PI-K76)),@IF(M76=3,-I76*@SIN(K76-@PI),-I76*@SIN(2*@PI-K76)))
A:R76: (F3) [W1] '
A:S76: (F3) +C75+O76
A:T76: (F3) [W1] '
A:U76: (F3) +E75+Q76
A:V76: (F4) [W1] '
A:A77: {Page} 'G4
A:B77: [W1] '
A:C77: (F3) +S76
A:D77: (F3) [W1] '
A:E77: (F3) +U76
A:F77: (F4) [W1] '
A:H77: (F4) [W1] '
A:J77: (F4) [W1] '
A:L77: (F2) [W1] '
A:N77: (F2) [W1] '
A:P77: (F3) [W1] '
A:R77: (F3) [W1] '
A:T77: (F3) [W1] '
A:V77: (F4) [W1] '
A:A78: {Page} *
A:B78: [W1] '
A:C78: (F3) *
A:D78: (F3) [W1] '
A:E78: (F3) *
A:F78: (F4) [W1] '
A:G78: (F6) 181
A:H78: (F4) [W1] '
A:I78: (F4) 305
A:J78: (F4) [W1] '
A:K78: (F4) [W1] @ROUND(G78*@PI/180,6)
A:L78: (F2) [W1] '
A:M78: (F0) [W1] @IF(G78>=0#AND#G78<180,@IF(G78<90,1,2),@IF(G78<270,3,4))

A:N78: (F2) [W1] '
A:O78: (F3)
@IF(M78=1#OR#M78=2,@IF(M78=1,I78*@COS(K78),-I78*@COS(@PI-K78)),@IF(M78=3,
-I78*@COS(K78-@PI),I78*@COS(2*@PI-K78)))
A:P78: (F3) [W1] '
A:Q78: (F3)
@IF(M78=1#OR#M78=2,@IF(M78=1,I78*@SIN(K78),I78*@SIN(@PI-K78)),@IF(M78=3,-I
78*@SIN(K78-@PI),-I78*@SIN(2*@PI-K78)))
A:R78: (F3) [W1] '
A:S78: (F3) +C77+O78
A:T78: (F3) [W1] '
A:U78: (F3) +E77+Q78
A:V78: (F4) [W1] '
A:A79: {Page} 'G5
A:B79: [W1] '
A:C79: (F3) +S78
A:D79: (F3) [W1] '
A:E79: (F3) +U78
A:F79: (F4) [W1] '
A:H79: (F4) [W1] '
A:J79: (F4) [W1] '
A:L79: (F2) [W1] '
A:N79: (F2) [W1] '
A:P79: (F3) [W1] '
A:R79: (F3) [W1] '
A:T79: (F3) [W1] '
A:V79: (F4) [W1] '
A:A80: {Page} *
A:B80: [W1] '
A:C80: (F3) *
A:D80: (F3) [W1] '
A:E80: (F3) *
A:F80: (F4) [W1] '
A:G80: (F6) 90.6271
A:H80: (F4) [W1] '
A:I80: (F4) 144.263
A:J80: (F4) [W1] '
A:K80: (F4) [W1] @ROUND(G80*@PI/180,6)
A:L80: (F2) [W1] '
A:M80: (F0) [W1] @IF(G80>=0#AND#G80<180,@IF(G80<90,1,2),@IF(G80<270,3,4))
A:N80: (F2) [W1] '
A:O80: (F3)

@IF(M80=1#OR#M80=2,@IF(M80=1,I80*@COS(K80),-I80*@COS(@PI-K80)),@IF(M80=3,-I80*@COS(K80-@PI),I80*@COS(2*@PI-K80)))

A:P80: (F3) [W1] "

A:Q80: (F3)

@IF(M80=1#OR#M80=2,@IF(M80=1,I80*@SIN(K80),I80*@SIN(@PI-K80)),@IF(M80=3,-I80*@SIN(K80-@PI),-I80*@SIN(2*@PI-K80)))

A:R80: (F3) [W1] "

A:S80: (F3) +C79+O80

A:T80: (F3) [W1] "

A:U80: (F3) +E79+Q80

A:V80: (F4) [W1] "

A:A81: {Page} 'G6

A:B81: [W1] "

A:C81: (F3) +S80

A:D81: (F3) [W1] "

A:E81: (F3) +U80

A:F81: (F4) [W1] "

A:H81: (F4) [W1] "

A:J81: (F4) [W1] "

A:L81: (F2) [W1] "

A:N81: (F2) [W1] "

A:P81: (F3) [W1] "

A:R81: (F3) [W1] "

A:T81: (F3) [W1] "

A:V81: (F4) [W1] "

A:A82: {Page} *

A:B82: [W1] "

A:C82: (F3) *

A:D82: (F3) [W1] "

A:E82: (F3) *

A:F82: (F4) [W1] "

A:G82: (F6) 3

A:H82: (F4) [W1] "

A:I82: (F4) 305

A:J82: (F4) [W1] "

A:K82: (F4) [W1] @ROUND(G82*@PI/180,6)

A:L82: (F2) [W1] "

A:M82: (F0) [W1] @IF(G82>=0#AND#G82<180,@IF(G82<90,1,2),@IF(G82<270,3,4))

A:N82: (F2) [W1] "

A:O82: (F3)

@IF(M82=1#OR#M82=2,@IF(M82=1,I82*@COS(K82),-I82*@COS(@PI-K82)),@IF(M82=3,-I82*@COS(K82-@PI),I82*@COS(2*@PI-K82)))

A:P82: (F3) [W1] '
A:Q82: (F3)
@IF(M82=1#OR#M82=2,@IF(M82=1,I82*@SIN(K82),I82*@SIN(@PI-K82)),@IF(M82=3,-I82*@SIN(K82-@PI),-I82*@SIN(2*@PI-K82)))
A:R82: (F3) [W1] '
A:S82: (F3) +C81+O82
A:T82: (F3) [W1] '
A:U82: (F3) +E81+Q82
A:V82: (F4) [W1] '
A:A83: {Page} 'G7
A:B83: [W1] '
A:C83: (F3) +S82
A:D83: (F3) [W1] '
A:E83: (F3) +U82
A:F83: (F4) [W1] '
A:H83: (F4) [W1] '
A:J83: (F4) [W1] '
A:L83: (F2) [W1] '
A:N83: (F2) [W1] '
A:P83: (F3) [W1] '
A:R83: (F3) [W1] '
A:T83: (F3) [W1] '
A:V83: (F4) [W1] '
A:A84: {Page} *
A:B84: [W1] '
A:C84: (F3) *
A:D84: (F3) [W1] '
A:E84: (F3) *
A:F84: (F4) [W1] '
A:G84: (F6) 273
A:H84: (F4) [W1] '
A:I84: (F4) 305
A:J84: (F4) [W1] '
A:K84: (F4) [W1] @ROUND(G84*@PI/180,6)
A:L84: (F2) [W1] '
A:M84: (F0) [W1] @IF(G84>=0#AND#G84<180,@IF(G84<90,1,2),@IF(G84<270,3,4))
A:N84: (F2) [W1] '
A:O84: (F3)
@IF(M84=1#OR#M84=2,@IF(M84=1,I84*@COS(K84),-I84*@COS(@PI-K84)),@IF(M84=3,-I84*@COS(K84-@PI),I84*@COS(2*@PI-K84)))
A:P84: (F3) [W1] '
A:Q84: (F3)

@IF(M84=1#OR#M84=2,@IF(M84=1,I84*@SIN(K84),I84*@SIN(@PI-K84)),@IF(M84=3,-I84*@SIN(K84-@PI),-I84*@SIN(2*@PI-K84)))
A:R84: (F3) [W1] '
A:S84: (F3) +C83+O84
A:T84: (F3) [W1] '
A:U84: (F3) +E83+Q84
A:V84: (F4) [W1] '
A:A85: {Page} 'G8
A:B85: [W1] '
A:C85: (F3) +S84
A:D85: (F3) [W1] '
A:E85: (F3) +U84
A:F85: (F4) [W1] '
A:H85: (F4) [W1] '
A:J85: (F4) [W1] '
A:L85: (F2) [W1] '
A:N85: (F2) [W1] '
A:P85: (F3) [W1] '
A:R85: (F3) [W1] '
A:T85: (F3) [W1] '
A:V85: (F4) [W1] '
A:A86: {Page} *
A:B86: [W1] '
A:C86: (F3) *
A:D86: (F3) [W1] '
A:E86: (F3) *
A:F86: (F4) [W1] '
A:G86: (F6) 3
A:H86: (F4) [W1] '
A:I86: (F4) 3131.142
A:J86: (F4) [W1] '
A:K86: (F4) [W1] @ROUND(G86*@PI/180,6)
A:L86: (F2) [W1] '
A:M86: (F0) [W1] @IF(G86>=0#AND#G86<180,@IF(G86<90,1,2),@IF(G86<270,3,4))
A:N86: (F2) [W1] '
A:O86: (F3)
@IF(M86=1#OR#M86=2,@IF(M86=1,I86*@COS(K86),-I86*@COS(@PI-K86)),@IF(M86=3,-I86*@COS(K86-@PI),I86*@COS(2*@PI-K86)))
A:P86: (F3) [W1] '
A:Q86: (F3)
@IF(M86=1#OR#M86=2,@IF(M86=1,I86*@SIN(K86),I86*@SIN(@PI-K86)),@IF(M86=3,-I86*@SIN(K86-@PI),-I86*@SIN(2*@PI-K86)))

A:R86: (F3) [W1] '
A:S86: (F3) +C85+Q86
A:T86: (F3) [W1] '
A:U86: (F3) +E85+Q86
A:V86: (F4) [W1] '
A:A87: {Page} 'C8 (CLOSE)
A:B87: [W1] '
A:C87: (F3) +S86
A:D87: (F3) [W1] '
A:E87: (F3) +U86
A:F87: (F4) [W1] '
A:H87: (F4) [W1] '
A:J87: (F4) [W1] '
A:L87: (F2) [W1] '
A:N87: (F2) [W1] '
A:P87: (F3) [W1] '
A:R87: (F3) [W1] '
A:T87: (F3) [W1] '
A:V87: (F4) [W1] '

Attachment IV

**Cell Contents of Spreadsheet
used to
Generate Table 7-4**

**(Also includes a copy of spreadsheet
with rows and columns labeled)**

TABLE 7-4 - UPPER BLOCK VERTICAL TRAVERSE														
COORDINATE CHECKER WORKSHEET			CALCULATES DISTANCE, AZIMUTH, & SLOPE (GRADE) BETWEEN GIVEN SETS OF COORDINATES											
Column A Enter Pt. #	Column C Enter Northing	Column E Enter Easting												
INPUTS														
POINT	NORTH	EAST	ELEVATION	dELEV	dH	dE	dLEV	HORIZ. DIST	SLOPE DIST	SLOPE (%)	QUADRANT	MAP AZIMUTH (RAD)	MAP AZIMUTH (DEC. DEG.)	
C8 (NR PT/VF)	234057.742	171313.778	1086.608											
A8	234053.122	171343.408	1057.367	-7.643	063.260	29.830	-7.643	665.158	666.268	-1.260	1.080	0.052	3.000	
A1	234051.184	171181.117	1057.065	0.002	7.867	-182.231	0.562	782.890	102.501	0.262	4.000	4.765	273.000	
A2	234050.707	171252.495	1056.765	-2.329	136.603	81.278	-2.121	932.080	152.616	-1.341	1.000	0.414	33.738	
A3	235073.257	170521.487	1054.841	-8.947	273.069	-821.836	-8.947	678.413	678.414	-0.140	4.000	3.727	283.734	
A4	234028.721	170044.332	1055.372											
A5	234028.787	170437.301	1067.808	0.067	40.476	-147.081	0.067	163.508	162.580	0.064	4.000	4.861	285.282	
A6	234050.250	170218.737	1063.635	6.507	-652.947	-128.264	6.567	475.267	470.343	1.388	3.000	3.419	195.012	
A7	234050.286	169629.183	1063.027	0.291	134.567	-451.564	0.291	503.030	500.089	0.058	4.000	4.865	285.012	
A8	234425.699	170275.637	1054.282											
A9	234255.885	170191.678	1057.530	2.578	-186.783	-84.058	2.578	186.097	186.715	1.381	3.000	3.609	205.798	
B0	234033.633	170036.045	1058.833	1.665	-225.153	-445.437	1.005	308.030	500.801	0.212	2.808	2.038	118.763	
B1	234067.406	170140.894	1070.078	1.436	63.573	-687.122	1.435	508.000	600.802	0.287	4.803	4.825	278.151	
B2	233884.454	170311.288	1080.510	16.349	-1032.952	-128.025	16.548	1209.916	1290.028	1.358	3.000	3.248	195.168	
B3	233890.880	170308.282	1055.184	-1.435	-43.388	497.122	-1.435	500.800	500.002	-0.257	2.000	1.878	80.188	
B4	232708.518	170322.495	1058.900	3.715	-121.867	-494.898	3.716	500.800	500.014	0.743	3.000	4.408	255.881	
B5	231046.881	170441.142	1108.154	20.284	-1080.238	417.806	20.284	1711.864	1712.074	1.184	2.000	2.888	385.881	
B9	231119.798	170723.627	1106.898	-2.106	71.115	-283.728	-2.168	291.852	281.540	-0.743	1.800	1.324	75.881	
C0	231088.744	170691.886	1107.378	0.372	-118.682	-267.809	0.372	281.532	281.532	0.126	2.000	1.978	113.244	
C1	231274.126	171107.482	1103.208	-4.600	208.282	115.705	-4.688	293.108	283.217	-1.582	1.000	0.406	23.244	
C2	231084.828	170827.158	1102.900	-0.380	120.378	-288.243	-0.380	308.800	305.000	-0.126	4.000	5.118	283.244	
C3	231376.547	171131.741	1101.787	-1.182	-16.888	304.582	-1.183	305.800	305.002	-0.262	2.000	1.623	82.988	
C4	231777.400	171182.844	1096.889	-4.382	388.867	20.909	-4.382	389.404	388.440	-1.280	1.000	0.052	3.000	
C5	231775.634	171173.784	1096.695	0.000	-0.889	21.148	0.000	22.278	22.328	0.000	2.000	1.885	108.000	
C6	231740.756	171166.088	1086.754	8.348	-33.778	-7.725	0.348	25.080	25.602	1.288	5.000	2.488	197.888	
C7	231745.449	171191.028	1085.984	-0.680	-1.309	24.885	-0.088	25.080	25.808	-0.282	2.808	1.623	83.081	
C8 (CLOSE)	234057.742	171313.778	1086.608	-31.884	2342.280	722.783	-31.884	2345.268	2345.721	-1.700	1.000	0.052	3.000	

A:A1: {Page 1/1} 'UPBLKVRT.WK1

A:E1: {Page Arial MT14} 'TABLE 7-4 -

A:G1: {Page Arial MT14} 'UPPER BLOCK VERTICAL TRAVERSE

A:A5: {Page} 'COORDINATE CHECKER WORKSHEET

A:G5: 'CALCULATES DISTANCE, AZIMUTH, & SLOPE (GRADE) BETWEEN
GIVEN SETS OF COORDINATES

A:A6: {Page} \

A:C6: \

A:D6: [W1] '

A:E6: \

A:F6: [W1] \

A:K6: '

A:L6: [W1] '

A:M6: '

A:N6: [W1] '

A:O6: '

A:P6: [W1] \

A:Q6: \

A:R6: [W1] \

A:S6: \

A:T6: [W1] \

A:U6: \

A:V6: [W1] \

A:W6: '

A:X6: [W1] '

A:AB6: [W1] '

A:AC6: \

A:A7: {Page} ^Column A

A:B7: [W1] \

A:C7: ^Column C

A:D7: [W1] \

A:E7: ^Column E

A:F7: [W1] \

A:K7: '

A:L7: [W1] '

A:M7: '

A:N7: [W1] '

A:P7: [W1] \

A:Q7: ^Column Q

A:R7: [W1] \

A:S7: ^Column S

A:T7: [W1] \

A:U7: ^Column U
A:V7: [W1] \\
A:AB7: [W1] \\
A:AC7: ^Column AC
A:AD7: [W1] \\
A:A8: {Page} 'Enter Pt. #
A:B8: [W1] \\
A:C8: ^Enter
A:D8: [W1] \\
A:E8: ^Enter
A:F8: [W1] \\
A:K8: '
A:L8: [W1] '
A:N8: [W1] '
A:P8: [W1] \\
A:Q8: ^Read
A:R8: [W1] \\
A:S8: ^Read
A:T8: [W1] \\
A:U8: ^Read
A:V8: [W1] \\
A:W8: *PI/2=
A:Y8: @ROUND(@PI/2,6)
A:AB8: [W1] \\
A:AC8: ^Read
A:AD8: [W1] \\
A:B9: [W1] \\
A:C9: ^Northing
A:D9: [W1] \\
A:E9: ^Easting
A:F9: [W1] \\
A:L9: [W1] '
A:N9: [W1] '
A:P9: [W1] \\
A:Q9: ^Horiz. Dist.
A:R9: [W1] \\
A:S9: ^Slope Dist.
A:T9: [W1] \\
A:U9: ^Slope (%)
A:V9: [W1] \\
A:W9: *3PI/2=
A:Y9: @ROUND(3*@PI/2,6)

A:AB9: [W1] \\
A:AC9: 'Map Azimuth
A:AD9: [W1] \\
A:A10: {Page} \\
A:B10: [W1] \\
A:C10: \\
A:D10: [W1] \\
A:E10: \\
A:F10: [W1] \\
A:K10: '
A:L10: [W1] '
A:M10: '
A:N10: [W1] '
A:O10: '
A:P10: [W1] \\
A:Q10: \\
A:R10: [W1] \\
A:S10: \\
A:T10: [W1] \\
A:U10: \\
A:V10: [W1] \\
A:W10: '
A:X10: [W1] '
A:Y10: '
A:Z10: [W1] '
A:AA10: '
A:AB10: [W1] \\
A:AC10: ^{Dec. Deg.)
A:AD10: [W1] \\
A:AB11: [W1] \\
A:AC11: \\
A:AD11: [W1] \\
A:C12: "INPUTS
A:AD12: [W1] '
A:A13: {Page} \\
A:B13: [W1] \\
A:C13: \\
A:D13: [W1] \\
A:E13: \\
A:F13: [W1] \\
A:G13: \\
A:H13: [W1] \\

A:I13: [W14] \=
A:J13: [W1] \=
A:K13: \=
A:L13: [W1] \=
A:M13: \=
A:N13: [W1] \=
A:O13: \=
A:P13: [W1] \=
A:Q13: \=
A:R13: [W1] \=
A:S13: \=
A:T13: [W1] \=
A:U13: \=
A:V13: [W1] \=
A:W13: \=
A:Y13: ^MAP AZIMUTH
A:AA13: \=
A:AC13: ^MAP AZIMUTH
A:AD13: [W1] '
A:A14: {Page} ^POINT
A:C14: ^NORTH
A:E14: ^EAST
A:G14: ^ELEVATION
A:H14: (F4) [W1] '
A:I14: [W14] ^dELEV
A:J14: [W1] '
A:K14: ^dN
A:M14: ^dE
A:O14: ^dELEV
A:Q14: ^HORIZ. DIST.
A:S14: ^SLOPE DIST.
A:U14: ^SLOPE (%)
A:W14: ^QUADRANT
A:Y14: ^(^RADS)
A:AC14: ^(^DEC. DEG.)
A:A15: {Page} \=
A:B15: [W1] \=
A:C15: \=
A:D15: [W1] \=
A:E15: \=
A:F15: [W1] \=
A:G15: \=

A:H15: [W1] '='
A:I15: [W14] \=
A:J15: [W1] '='
A:K15: \=
A:L15: [W1] '='
A:M15: \=
A:N15: [W1] '='
A:O15: \=
A:P15: [W1] '='
A:Q15: \=
A:R15: [W1] '='
A:S15: \=
A:T15: [W1] '='
A:U15: \=
A:V15: [W1] '='
A:W15: \=
A:X15: [W1] '='
A:Y15: \=
A:Z15: [W1] \=
A:AA15: \=
A:AB15: [W1] \=
A:AC15: \=
A:AD15: [W1] \=
A:B16: [W1] '
A:D16: (F4) [W1] '
A:F16: (F4) [W1] '
A:H16: (F4) [W1] '
A:J16: (F3) [W1] '
A:L16: (F3) [W1] '
A:N16: (F3) [W1] '
A:P16: (F3) [W1] '
A:R16: (F3) [W1] '
A:T16: (F3) [W1] '
A:V16: (F2) [W1] '
A:X16: (F2) [W1] '
A:Z16: (F4) [W1] '
A:AB16: (F4) [W1] '
A:AD16: (F2) [W1] '
A:A17: {Page} 'C8 (NR PT/VPI)
A:B17: [W1] '
A:C17: (F3) 234087.742
A:D17: (F3) [W1] '

A:E17: (F3) 171313.778
A:F17: (F4) [W1] '
A:G17: (F3) 1065
A:H17: (F3) [W1] '
A:I17: (F3) [W1] '
A:L17: (F3) [W1] '
A:N17: (F3) [W1] '
A:P17: (F3) [W1] '
A:R17: (F3) [W1] '
A:T17: (F3) [W1] '
A:V17: (F3) [W1] '
A:X17: (F3) [W1] '
A:Z17: (F3) [W1] '
A:AB17: (F3) [W1] '
A:AD17: (F2) [W1] '
A:B18: [W1] '
A:D18: (F3) [W1] '
A:F18: (F4) [W1] '
A:H18: (F3) [W1] '
A:I18: (F3) [W14] (((@COS((198*@PI/180)-(AC18*@PI/180)))*0.013976)*Q18
A:J18: (F3) [W1] '
A:K18: (F3) +C19-C17
A:L18: (F3) [W1] '
A:M18: (F3) +E19-E17
A:N18: (F3) [W1] '
A:O18: (F3) +G19-G17
A:P18: (F3) [W1] '
A:Q18: (F3) @SQRT((K18*K18)+(M18*M18))
A:R18: (F3) [W1] '
A:S18: (F3) @SQRT((O18*O18)+(Q18*Q18))
A:T18: (F3) [W1] '
A:U18: (F3) 100*(O18/Q18)
A:V18: (F3) [W1] '
A:W18: (F3)
@IF(K18=0#OR#M18=0,@IF(M18=0,@IF(K18<0,30,10),@IF(M18<0,40,20)),@IF(K18>0,@I
F(M18>0,1,4),@IF(M18>0,2,3)))
A:X18: (F3) [W1] '
A:Y18: (F3)
@IF(W18=10#OR#W18=20#OR#W18=30#OR#W18=40,@IF(W18=10#OR#W18=30,@IF(W1
8=10,0,180),@IF(W18=20,90,270)),@IF(W18=1#OR#W18=2,@IF(W18=1,@ABS(@ATAN(
M18/K18)),@ABS(@ATAN(K18/M18))+@PI/2),@IF(W18=3,@ATAN(M18/K18)+@PI,@AB
S(@ATAN(K18/M18))+3*@PI/2)))

A:Z18: (F3) [W1] '
A:AB18: (F3) [W1] '
A:AC18: (F3) @IF(Y18>2*@PI,Y18,Y18*180/@PI)
A:AD18: (F2) [W1] '
A:A19: {Page} 'A0
A:B19: [W1] '
A:C19: (F3) 234653.1222
A:D19: (F3) [W1] '
A:E19: (F3) 171343.4082
A:F19: (F4) [W1] '
A:G19: (F3) +G17+I18
A:H19: (F3) [W1] '
A:I19: (F3) [W1] '
A:L19: (F3) [W1] '
A:N19: (F3) [W1] '
A:P19: (F3) [W1] '
A:R19: (F3) [W1] '
A:T19: (F3) [W1] '
A:V19: (F3) [W1] '
A:X19: (F3) [W1] '
A:Z19: (F3) [W1] '
A:AB19: (F3) [W1] '
A:AD19: (F2) [W1] '
A:B20: [W1] '
A:D20: (F3) [W1] '
A:F20: (F4) [W1] '
A:H20: (F3) [W1] '
A:I20: (F3) [W14] (((@COS((198*@PI/180)-(AC20*@PI/180)))*0.013976)*Q20
A:J20: (F3) [W1] '
A:K20: (F3) +C21-C19
A:L20: (F3) [W1] '
A:M20: (F3) +E21-E19
A:N20: (F3) [W1] '
A:O20: (F3) +G21-G19
A:P20: (F3) [W1] '
A:Q20: (F3) @SQRT((K20*K20)+(M20*M20))
A:R20: (F3) [W1] '
A:S20: (F3) @SQRT((O20*O20)+(Q20*Q20))
A:T20: (F3) [W1] '
A:U20: (F3) 100*(O20/Q20)
A:V20: (F3) [W1] '
A:W20: (F3)

@IF(K20=0#OR#M20=0,@IF(M20=0,@IF(K20<0,30,10),@IF(M20<0,40,20)),@IF(K20>0,@IF(M20>0,1,4),@IF(M20>0,2,3)))

A:X20: (F3) [W1] "

A:Y20: (F3)

@IF(W20=10#OR#W20=20#OR#W20=30#OR#W20=40,@IF(W20=10#OR#W20=30,@IF(W20=10,0,180),@IF(W20=20,90,270)),@IF(W20=1#OR#W20=2,@IF(W20=1,@ABS(@ATAN(M20/K20)),@ABS(@ATAN(K20/M20))+@PI/2),@IF(W20=3,@ATAN(M20/K20)+@PI,@ABS(@ATAN(K20/M20))+3*@PI/2)))

A:Z20: (F3) [W1] "

A:AB20: (F3) [W1] "

A:AC20: (F3) @IF(Y20>2*@PI,Y20,Y20*180/@PI)

A:AD20: (F2) [W1] "

A:A21: {Page} 'A1

A:B21: [W1] "

A:C21: (F3) 234661.1042

A:D21: (F3) [W1] "

A:E21: (F3) 171191.1172

A:F21: (F4) [W1] "

A:G21: (F3) +G19+I20

A:H21: (F3) [W1] "

A:J21: (F3) [W1] "

A:L21: (F3) [W1] "

A:N21: (F3) [W1] "

A:P21: (F3) [W1] "

A:R21: (F3) [W1] "

A:T21: (F3) [W1] "

A:V21: (F3) [W1] "

A:X21: (F3) [W1] "

A:Z21: (F3) [W1] "

A:AB21: (F3) [W1] "

A:AD21: (F2) [W1] "

A:B22: [W1] "

A:D22: (F3) [W1] "

A:F22: (F4) [W1] "

A:H22: (F3) [W1] "

A:I22: (F3) [W14] ((@COS((198*@PI/180)-(AC22*@PI/180)))*0.013976)*Q22

A:J22: (F3) [W1] "

A:K22: (F3) +C23-C21

A:L22: (F3) [W1] "

A:M22: (F3) +E23-E21

A:N22: (F3) [W1] "

A:O22: (F3) +G23-G21

A:P22: (F3) [W1] '
A:Q22: (F3) @SQRT((K22*K22)+(M22*M22))
A:R22: (F3) [W1] '
A:S22: (F3) @SQRT((O22*O22)+(Q22*Q22))
A:T22: (F3) [W1] '
A:U22: (F3) 100*(O22/Q22)
A:V22: (F3) [W1] '
A:W22: (F3)
@IF(K22=0#OR#M22=0,@IF(M22=0,@IF(K22<0,30,10),@IF(M22<0,40,20)),@IF(K22>0,@I
F(M22>0,1,4),@IF(M22>0,2,3)))
A:X22: (F3) [W1] '
A:Y22: (F3)
@IF(W22=10#OR#W22=20#OR#W22=30#OR#W22=40,@IF(W22=10#OR#W22=30,@IF(W2
2=10,0,180),@IF(W22=20,90,270)),@IF(W22=1#OR#W22=2,@IF(W22=1,@ABS(@ATAN(
M22/K22)),@ABS(@ATAN(K22/M22))+@PI/2),@IF(W22=3,@ATAN(M22/K22)+@PI,@AB
S(@ATAN(K22/M22))+3*@PI/2)))
A:Z22: (F3) [W1] '
A:AB22: (F3) [W1] '
A:AC22: (F3) @IF(Y22>2*@PI,Y22,Y22*180/@PI)
A:AD22: (F2) [W1] '
A:A23: {Pago} 'A2
A:B23: [W1] '
A:C23: (F3) 234800.7073
A:D23: (F3) [W1] '
A:E23: (F3) 171252.4951
A:F23: (F4) [W1] '
A:G23: (F3) +G21+I22
A:H23: (F3) [W1] '
A:J23: (F3) [W1] '
A:L23: (F3) [W1] '
A:N23: (F3) [W1] '
A:P23: (F3) [W1] '
A:R23: (F3) [W1] '
A:T23: (F3) [W1] '
A:V23: (F3) [W1] '
A:X23: (F3) [W1] '
A:Z23: (F3) [W1] '
A:AB23: (F3) [W1] '
A:AD23: (F2) [W1] '
A:B24: [W1] '
A:D24: (F3) [W1] '
A:F24: (F4) [W1] '

A:H24: (F3) [W1] '
A:I24: (F3) [W14] (((@COS((198*@PI/180)-(AC24*@PI/180)))*0.013976)*Q24
A:J24: (F3) [W1] '
A:K24: (F3) +C25-C23
A:L24: (F3) [W1] '
A:M24: (F3) +E25-E23
A:N24: (F3) [W1] '
A:O24: (F3) +G25-G23
A:P24: (F3) [W1] '
A:Q24: (F3) @SQRT((K24*K24)+(M24*M24))
A:R24: (F3) [W1] '
A:S24: (F3) @SQRT((O24*O24)+(Q24*Q24))
A:T24: (F3) [W1] '
A:U24: (F3) 100*(O24/Q24)
A:V24: (F3) [W1] '
A:W24: (F3)
@IF(K24=0#OR#M24=0,@IF(M24=0,@IF(K24<0,30,10),@IF(M24<0,40,20)),@IF(K24>0,@I
F(M24>0,1,4),@IF(M24>0,2,3)))
A:X24: (F3) [W1] '
A:Y24: (F3)
@IF(W24=10#OR#W24=20#OR#W24=30#OR#W24=40,@IF(W24=10#OR#W24=30,@IF(W2
4=10,0,180),@IF(W24=20,90,270)),@IF(W24=1#OR#W24=2,@IF(W24=1,@ABS(@ATAN(
M24/K24)),@ABS(@ATAN(K24/M24))+@PI/2),@IF(W24=3,@ATAN(M24/K24)+@PI,@AB
S(@ATAN(K24/M24))+3*@PI/2)))
A:Z24: (F3) [W1] '
A:AB24: (F3) [W1] '
A:AC24: (F3) @IF(Y24>2*@PI,Y24,Y24*180/@PI)
A:AD24: [W1] '
A:A25: {Page} 'A3
A:B25: [W1] '
A:C25: (F3) 235073.7573
A:D25: (F3) [W1] '
A:E25: (F3) 170631.4571
A:F25: (F4) [W1] '
A:G25: (F3) +G23+I24
A:H25: (F3) [W1] '
A:J25: (F3) [W1] '
A:L25: (F3) [W1] '
A:N25: (F3) [W1] '
A:P25: (F3) [W1] '
A:R25: (F3) [W1] '
A:T25: (F3) [W1] '

A:V25: (F3) [W1] '
A:X25: (F3) [W1] '
A:Z25: (F3) [W1] '
A:AB25: (F3) [W1] '
A:AD25: [W1] '
A:B26: [W1] '
A:D26: (F3) [W1] '
A:F26: (F4) [W1] '
A:H26: (F3) [W1] '
A:I26: (F3) [W14] (((@COS((198*@PI/180)-(AC26*@PI/180)))*0.013976)*Q26
A:J26: (F3) [W1] '
A:K26: (F3) +C27-C25
A:L26: (F3) [W1] '
A:M26: (F3) +E27-E25
A:N26: (F3) [W1] '
A:O26: (F3) +G27-G25
A:P26: (F3) [W1] '
A:Q26: (F3) @SQRT((K26*K26)+(M26*M26))
A:R26: (F3) [W1] '
A:S26: (F3) @SQRT((O26*O26)+(Q26*Q26))
A:T26: (F3) [W1] '
A:U26: (F3) 100*(O26/Q26)
A:V26: (F3) [W1] '
A:W26: (F3)
@IF(K26=0#OR#M26=0,@IF(M26=0,@IF(K26<0,30,10),@IF(M26<0,40,20)),@IF(K26>0,@I
F(M26>0,1,4),@IF(M26>0,2,3)))
A:X26: (F3) [W1] '
A:Y26: (F3)
@IF(W26=10#OR#W26=20#OR#W26=30#OR#W26=40,@IF(W26=10#OR#W26=30,@IF(W2
6=10,0,180),@IF(W26=20,90,270)),@IF(W26=1#OR#W26=2,@IF(W26=1,@ABS(@ATAN(
M26/K26)),@ABS(@ATAN(K26/M26))+@PI/2),@IF(W26=3,@ATAN(M26/K26)+@PI,@AB
S(@ATAN(K26/M26))+3*@PI/2)))
A:Z26: (F3) [W1] '
A:AB26: (F3) [W1] '
A:AC26: (F3) @IF(Y26>2*@PI,Y26,Y26*180/@PI)
A:AD26: [W1] '
A:A27: {Page} 'A4
A:B27: [W1] '
A:C27: (F3) 234928.7213
A:D27: (F3) [W1] '
A:E27: (F3) 170584.3317
A:F27: (F4) [W1] '

A:G27: (F3) +G25+I26
A:H27: (F3) [W1] '
A:J27: (F3) [W1] '
A:L27: (F3) [W1] '
A:N27: (F3) [W1] '
A:P27: (F3) [W1] '
A:R27: (F3) [W1] '
A:T27: (F3) [W1] '
A:V27: (F3) [W1] '
A:X27: (F3) [W1] '
A:Z27: (F3) [W1] '
A:AB27: (F3) [W1] '
A:AD27: [W1] '
A:B28: [W1] '
A:D28: (F3) [W1] '
A:F28: (F4) [W1] '
A:H28: (F3) [W1] '
A:I28: (F3) [W14] (((@COS((198*@PI/180)-(AC28*@PI/180)))*0.013976)*Q28
A:J28: (F3) [W1] '
A:K28: (F3) +C29-C27
A:L28: (F3) [W1] '
A:M28: (F3) +E29-E27
A:N28: (F3) [W1] '
A:O28: (F3) +G29-G27
A:P28: (F3) [W1] '
A:Q28: (F3) @SQRT((K28*K28)+(M28*M28))
A:R28: (F3) [W1] '
A:S28: (F3) @SQRT((O28*O28)+(Q28*Q28))
A:T28: (F3) [W1] '
A:U28: (F3) 100*(O28/Q28)
A:V28: (F3) [W1] '
A:W28: (F3)
@if(K28=0#OR#M28=0,@if(M28=0,@if(K28<0,30,10),@if(M28<0,40,20)),@if(K28>0,@if(M28>0,1,4),@if(M28>0,2,3)))
A:X28: (F3) [W1] '
A:Y28: (F3)
@if(W28=10#OR#W28=20#OR#W28=30#OR#W28=40,@if(W28=10#OR#W28=30,@if(W28=10,0,180),@if(W28=20,90,270)),@if(W28=1#OR#W28=2,@if(W28=1,@ABS(@ATAN(M28/K28)),@ABS(@ATAN(K28/M28))+@PI/2),@if(W28=3,@ATAN(M28/K28)+@PI,@ABS(@ATAN(K28/M28))+3*@PI/2)))
A:Z28: (F3) [W1] '
A:AB28: (F3) [W1] '

A:AC28: (F3) @IF(Y28>2*@PI,Y28,Y28*180/@PI)
A:AD28: [W1] '
A:A29: {Page} 'A5
A:B29: [W1] '
A:C29: (F3) 234969.197
A:D29: (F3) [W1] '
A:E29: (F3) 170437.3012
A:F29: (F4) [W1] '
A:G29: (F3) +G27+I28
A:H29: (F3) [W1] '
A:J29: (F3) [W1] '
A:L29: (F3) [W1] '
A:N29: (F3) [W1] '
A:P29: (F3) [W1] '
A:R29: (F3) [W1] '
A:T29: (F3) [W1] '
A:V29: (F3) [W1] '
A:X29: (F3) [W1] '
A:Z29: (F3) [W1] '
A:AB29: (F3) [W1] '
A:AD29: [W1] '
A:B30: [W1] '
A:D30: (F3) [W1] '
A:F30: (F4) [W1] '
A:H30: (F3) [W1] '
A:I30: (F3) [W14] ((@COS((198*@PI/180)-(AC30*@PI/180)))*0.013976)*Q30
A:J30: (F3) [W1] '
A:K30: (F3) +C31-C29
A:L30: (F3) [W1] '
A:M30: (F3) +E31-E29
A:N30: (F3) [W1] '
A:O30: (F3) +G31-G29
A:P30: (F3) [W1] '
A:Q30: (F3) @SQRT((K30*K30)+(M30*M30))
A:R30: (F3) [W1] '
A:S30: (F3) @SQRT((O30*O30)+(Q30*Q30))
A:T30: (F3) [W1] '
A:U30: (F3) 100*(O30/Q30)
A:V30: (F3) [W1] '
A:W30: (F3)
@IF(K30=0#OR#M30=0,@IF(M30=0,@IF(K30<0,30,10),@IF(M30<0,40,20)),@IF(K30>0,@I
F(M30>0,1,4),@IF(M30>0,2,3)))

A:X30: (F3) [W1] "
A:Y30: (F3)
@IF(W30=10#OR#W30=20#OR#W30=30#OR#W30=40,@IF(W30=10#OR#W30=30,@IF(W30=10,0,180),@IF(W30=20,90,270)),@IF(W30=1#OR#W30=2,@IF(W30=1,@ABS(@ATAN(M30/K30)),@ABS(@ATAN(K30/M30))+@PI/2),@IF(W30=3,@ATAN(M30/K30)+@PI,@ABS(@ATAN(K30/M30))+3*@PI/2)))
A:Z30: (F3) [W1] "
A:AB30: (F3) [W1] "
A:AC30: (F3) @IF(Y30>2*@PI,Y30,Y30*180/@PI)
A:AD30: [W1] "
A:A31: {Page} 'A6
A:B31: [W1] "
A:C31: (F3) 234516.2504
A:D31: (F3) [W1] "
A:E31: (F3) 170310.7367
A:F31: (F4) [W1] "
A:G31: (F3) +G29+I30
A:H31: (F3) [W1] "
A:J31: (F3) [W1] "
A:L31: (F3) [W1] "
A:N31: (F3) [W1] "
A:P31: (F3) [W1] "
A:R31: (F3) [W1] "
A:T31: (F3) [W1] "
A:V31: (F3) [W1] "
A:X31: (F3) [W1] "
A:Z31: (F3) [W1] "
A:AB31: (F3) [W1] "
A:AD31: [W1] "
A:B32: [W1] "
A:D32: (F3) [W1] "
A:F32: (F4) [W1] "
A:H32: (F3) [W1] "
A:I32: (F3) [W14] (((@COS((198*@PI/180)-(AC32*@PI/180)))*0.013976)*Q32
A:J32: (F3) [W1] "
A:K32: (F3) +C33-C31
A:L32: (F3) [W1] "
A:M32: (F3) +E33-E31
A:N32: (F3) [W1] "
A:O32: (F3) +G33-G31
A:P32: (F3) [W1] "
A:Q32: (F3) @SQRT((K32*K32)+(M32*M32))

A:R32: (F3) [W1] '
A:S32: (F3) @SQRT(((O32*O32)+(Q32*Q32))
A:T32: (F3) [W1] '
A:U32: (F3) 100*(O32/Q32)
A:V32: (F3) [W1] '
A:W32: (F3)
@IF(K32=0#OR#M32=0,@IF(M32=0,@IF(K32<0,30,10),@IF(M32<0,40,20)),@IF(K32>0,@I
F(M32>0,1,4),@IF(M32>0,2,3)))
A:X32: (F3) [W1] '
A:Y32: (F3)
@IF(W32=10#OR#W32=20#OR#W32=30#OR#W32=40,@IF(W32=10#OR#W32=30,@IF(W3
2=10,0,180),@IF(W32=20,90,270)),@IF(W32=1#OR#W32=2,@IF(W32=1,@ABS(@ATAN(
M32/K32)),@ABS(@ATAN(K32/M32))+@PI/2),@IF(W32=3,@ATAN(M32/K32)+@PI,@AB
S(@ATAN(K32/M32))+3*@PI/2)))
A:Z32: (F3) [W1] '
A:AB32: (F3) [W1] '
A:AC32: (F3) @IF(Y32>2*@PI,Y32,Y32*180/@PI)
A:AD32: [W1] '
A:A33: {Page} 'A7
A:B33: [W1] '
A:C33: (F3) 234650.8078
A:D33: (F3) [W1] '
A:E33: (F3) 169829.1828
A:F33: (F4) [W1] '
A:G33: (F3) +G31+I32
A:H33: (F3) [W1] '
A:J33: (F3) [W1] '
A:L33: (F3) [W1] '
A:N33: (F3) [W1] '
A:P33: (F3) [W1] '
A:R33: (F3) [W1] '
A:T33: (F3) [W1] '
A:V33: (F3) [W1] '
A:X33: (F3) [W1] '
A:Z33: (F3) [W1] '
A:AB33: (F3) [W1] '
A:AD33: [W1] '
A:B34: [W1] '
A:D34: (F3) [W1] '
A:F34: (F4) [W1] '
A:H34: (F3) [W1] '
A:I34: (F3) [W14] (((@COS((198*@PI/180)-(AC34*@PI/180)))*0.013976)*Q34

A:J34: (F3) [W1] '
A:K34: (F3) +C35-C33
A:L34: (F3) [W1] '
A:M34: (F3) +E35-E33
A:N34: (F3) [W1] '
A:O34: (F3) +G35-G33
A:P34: (F3) [W1] '
A:Q34: (F3) @SQRT((K34*K34)+(M34*M34))
A:R34: (F3) [W1] '
A:S34: (F3) @SQRT((O34*O34)+(Q34*Q34))
A:T34: (F3) [W1] '
A:U34: (F3) 100*(O34/Q34)
A:V34: (F3) [W1] '
A:W34: (F3)
@IF(K34=0#OR#M34=0,@IF(M34=0,@IF(K34<0,30,10),@IF(M34<0,40,20)),@IF(K34>0,@I
F(M34>0,1,4),@IF(M34>0,2,3)))
A:X34: (F3) [W1] '
A:Y34: (F3)
@IF(W34=10#OR#W34=20#OR#W34=30#OR#W34=40,@IF(W34=10#OR#W34=30,@IF(W3
4=10,0,180),@IF(W34=20,90,270)),@IF(W34=1#OR#W34=2,@IF(W34=1,@ABS(@ATAN(
M34/K34)),@ABS(@ATAN(K34/M34))+@PI/2),@IF(W34=3,@ATAN(M34/K34)+@PI,@AB
S(@ATAN(K34/M34))+3*@PI/2)))
A:Z34: (F3) [W1] '
A:AB34: (F3) [W1] '
A:AC34: (F3) @IF(Y34>2*@PI,Y34,Y34*180/@PI)
A:AD34: [W1] '
A:A35: {Page} 'A8
A:B35: [W1] '
A:C35: (F3) 234425.6886
A:D35: (F3) [W1] '
A:E35: (F3) 170275.6367
A:F35: (F4) [W1] '
A:G35: (F3) +G33+I34
A:H35: (F3) [W1] '
A:J35: (F3) [W1] '
A:L35: (F3) [W1] '
A:N35: (F3) [W1] '
A:P35: (F3) [W1] '
A:R35: (F3) [W1] '
A:T35: (F3) [W1] '
A:V35: (F3) [W1] '
A:X35: (F3) [W1] '

A:Z35: (F3) [W1] '
A:AB35: (F3) [W1] '
A:AD35: [W1] '
A:B36: [W1] '
A:D36: (F3) [W1] '
A:F36: (F4) [W1] '
A:H36: (F3) [W1] '
A:I36: (F3) [W14] (((@COS((198*@PI/180)-(AC36*@PI/180)))*0.013976)*Q36
A:J36: (F3) [W1] '
A:K36: (F3) +C37-C35
A:L36: (F3) [W1] '
A:M36: (F3) +E37-E35
A:N36: (F3) [W1] '
A:O36: (F3) +G37-G35
A:P36: (F3) [W1] '
A:Q36: (F3) @SQRT((K36*K36)+(M36*M36))
A:R36: (F3) [W1] '
A:S36: (F3) @SQRT((O36*O36)+(Q36*Q36))
A:T36: (F3) [W1] '
A:U36: (F3) 100*(O36/Q36)
A:V36: (F3) [W1] '
A:W36: (F3)
@IF(K36=0#OR#M36=0,@IF(M36=0,@IF(K36<0,30,10),@IF(M36<0,40,20)),@IF(K36>0,@I
F(M36>0,1,4),@IF(M36>0,2,3)))
A:X36: (F3) [W1] '
A:Y36: (F3)
@IF(W36=10#OR#W36=20#OR#W36=30#OR#W36=40,@IF(W36=10#OR#W36=30,@IF(W3
6=10,0,180),@IF(W36=20,90,270)),@IF(W36=1#OR#W36=2,@IF(W36=1,@ABS(@ATAN(
M36/K36)),@ABS(@ATAN(K36/M36))+@PI/2),@IF(W36=3,@ATAN(M36/K36)+@PI,@AB
S(@ATAN(K36/M36))+3*@PI/2)))
A:Z36: (F3) [W1] '
A:AB36: (F3) [W1] '
A:AC36: (F3) @IF(Y36>2*@PI,Y36,Y36*180/@PI)
A:AD36: [W1] '
A:A37: {Page} 'A9
A:B37: [W1] '
A:C37: (F3) 234258.9853
A:D37: (F3) [W1] '
A:E37: (F3) 170191.5785
A:F37: (F4) [W1] '
A:G37: (F3) +G35+I36
A:H37: (F3) [W1] '

A:J37: (F3) [W1] '
A:L37: (F3) [W1] '
A:N37: (F3) [W1] '
A:P37: (F3) [W1] '
A:R37: (F3) [W1] '
A:T37: (F3) [W1] '
A:V37: (F3) [W1] '
A:X37: (F3) [W1] '
A:Z37: (F3) [W1] '
A:AB37: (F3) [W1] '
A:AD37: [W1] '
A:B38: [W1] '
A:D38: (F3) [W1] '
A:F38: (F4) [W1] '
A:H38: (F3) [W1] '
A:I38: (F3) [W14] (((@COS((198*@PI/180)-(AC38*@PI/180)))*0.013976)*Q38
A:J38: (F3) [W1] '
A:K38: (F3) +C39-C37
A:L38: (F3) [W1] '
A:M38: (F3) +E39-E37
A:N38: (F3) [W1] '
A:O38: (F3) +G39-G37
A:P38: (F3) [W1] '
A:Q38: (F3) @SQRT((K38*K38)+(M38*M38))
A:R38: (F3) [W1] '
A:S38: (F3) @SQRT((O38*O38)+(Q38*Q38))
A:T38: (F3) [W1] '
A:U38: (F3) 100*(O38/Q38)
A:V38: (F3) [W1] '
A:W38: (F3)
@IF(K38=0#OR#M38=0,@IF(M38=0,@IF(K38<0,30,10),@IF(M38<0,40,20)),@IF(K38>0,@I
F(M38>0,1,4),@IF(M38>0,2,3)))
A:X38: (F3) [W1] '
A:Y38: (F3)
@IF(W38=10#OR#W38=20#OR#W38=30#OR#W38=40,@IF(W38=10#OR#W38=30,@IF(W3
8=10,0,180),@IF(W38=20,90,270)),@IF(W38=1#OR#W38=2,@IF(W38=1,@ABS(@ATAN(
M38/K38)),@ABS(@ATAN(K38/M38))+@PI/2),@IF(W38=3,@ATAN(M38/K38)+@PI,@AB
S(@ATAN(K38/M38))+3*@PI/2)))
A:Z38: (F3) [W1] '
A:AB38: (F3) [W1] '
A:AC38: (F3) @IF(Y38>2*@PI,Y38,Y38*180/@PI)
A:AD38: [W1] '

A:A39: {Page} 'B0
A:B39: [W1] '
A:C39: (F3) 234033.8325
A:D39: (F3) [W1] '
A:E39: (F3) 170638.0157
A:F39: (F4) [W1] '
A:G39: (F3) +G37+I38
A:H39: (F3) [W1] '
A:J39: (F3) [W1] '
A:L39: (F3) [W1] '
A:N39: (F3) [W1] '
A:P39: (F3) [W1] '
A:R39: (F3) [W1] '
A:T39: (F3) [W1] '
A:V39: (F3) [W1] '
A:X39: (F3) [W1] '
A:Z39: (F3) [W1] '
A:AB39: (F3) [W1] '
A:AD39: [W1] '
A:B40: [W1] '
A:D40: (F3) [W1] '
A:F40: (F4) [W1] '
A:H40: (F3) [W1] '
A:I40: (F3) [W14] (((@COS((198*@PI/180)-(AC40*@PI/180)))*0.013976)*Q40
A:J40: (F3) [W1] '
A:K40: (F3) +C41-C39
A:L40: (F3) [W1] '
A:M40: (F3) +E41-E39
A:N40: (F3) [W1] '
A:O40: (F3) +G41-G39
A:P40: (F3) [W1] '
A:Q40: (F3) @SQRT((K40*K40)+(M40*M40))
A:R40: (F3) [W1] '
A:S40: (F3) @SQRT((O40*O40)+(Q40*Q40))
A:T40: (F3) [W1] '
A:U40: (F3) 100*(O40/Q40)
A:V40: (F3) [W1] '
A:W40: (F3)
@IF(K40=0#OR#M40=0,@IF(M40=0,@IF(K40<0,30,10),@IF(M40<0,40,20)),@IF(K40>0,@I
F(M40>0,1,4),@IF(M40>0,2,3)))
A:X40: (F3) [W1] '
A:Y40: (F3)

@IF(W40=10#OR#W40=20#OR#W40=30#OR#W40=40,@IF(W40=10#OR#W40=30,@IF(W40=10,0,180),@IF(W40=20,90,270)),@IF(W40=1#OR#W40=2,@IF(W40=1,@ABS(@ATAN(M40/K40)),@ABS(@ATAN(K40/M40))+@PI/2),@IF(W40=3,@ATAN(M40/K40)+@PI,@ABS(@ATAN(K40/M40))+3*@PI/2)))

A:Z40: (F3) [W1] "

A:AB40: (F3) [W1] "

A:AC40: (F3) @IF(Y40>2*@PI,Y40,Y40*180/@PI)

A:AD40: [W1] "

A:A41: {Page} 'B1

A:B41: [W1] "

A:C41: (F3) 234087.4059

A:D41: (F3) [W1] "

A:E41: (F3) 170140.8941

A:F41: (F4) [W1] "

A:G41: (F3) +G39+I40

A:H41: (F3) [W1] "

A:J41: (F3) [W1] "

A:L41: (F3) [W1] "

A:N41: (F3) [W1] "

A:P41: (F3) [W1] "

A:R41: (F3) [W1] "

A:T41: (F3) [W1] "

A:V41: (F3) [W1] "

A:X41: (F3) [W1] "

A:Z41: (F3) [W1] "

A:AB41: (F3) [W1] "

A:AD41: [W1] "

A:B42: [W1] "

A:D42: (F3) [W1] "

A:F42: (F4) [W1] "

A:H42: (F3) [W1] "

A:I42: (F3) [W14] (((@COS((198*@PI/180)-(AC42*@PI/180)))*0.013976)*Q42

A:J42: (F3) [W1] "

A:K42: (F3) +C43-C41

A:L42: (F3) [W1] "

A:M42: (F3) +E43-E41

A:N42: (F3) [W1] "

A:O42: (F3) +G43-G41

A:P42: (F3) [W1] "

A:Q42: (F3) @SQRT((K42*K42)+(M42*M42))

A:R42: (F3) [W1] "

A:S42: (F3) @SQRT((O42*O42)+(Q42*Q42))

A:T42: (F3) [W1] "
A:U42: (F3) 100*(O42/Q42)
A:V42: (F3) [W1] "
A:W42: (F3)
@IF(K42=0#OR#M42=0,@IF(M42=0,@IF(K42<0,30,10),@IF(M42<0,40,20)),@IF(K42>0,@I
F(M42>0,1,4),@IF(M42>0,2,3)))
A:X42: (F3) [W1] "
A:Y42: (F3)
@IF(W42=10#OR#W42=20#OR#W42=30#OR#W42=40,@IF(W42=10#OR#W42=30,@IF(W4
2=10,0,180),@IF(W42=20,90,270)),@IF(W42=1#OR#W42=2,@IF(W42=1,@ABS(@ATAN(
M42/K42)),@ABS(@ATAN(K42/M42))+@PI/2),@IF(W42=3,@ATAN(M42/K42)+@PI,@AB
S(@ATAN(K42/M42))+3*@PI/2)))
A:Z42: (F3) [W1] "
A:AB42: (F3) [W1] "
A:AC42: (F3) @IF(Y42>2*@PI,Y42,Y42*180/@PI)
A:AD42: [W1] "
A:A43: {Page} B2
A:B43: [W1] "
A:C43: (F3) 232884.454
A:D43: (F3) [W1] "
A:E43: (F3) 170011.2693
A:F43: (F4) [W1] "
A:G43: (F3) +G41+I42
A:H43: (F3) [W1] "
A:J43: (F3) [W1] "
A:L43: (F3) [W1] "
A:N43: (F3) [W1] "
A:P43: (F3) [W1] "
A:R43: (F3) [W1] "
A:T43: (F3) [W1] "
A:V43: (F3) [W1] "
A:X43: (F3) [W1] "
A:Z43: (F3) [W1] "
A:AB43: (F3) [W1] "
A:AD43: [W1] "
A:B44: [W1] "
A:D44: (F3) [W1] "
A:F44: (F4) [W1] "
A:H44: (F3) [W1] "
A:I44: (F3) [W14] ((@COS((198*@PI/180)-(AC44*@PI/180)))*0.013976)*Q44
A:J44: (F3) [W1] "
A:K44: (F3) +C45-C43

A:L44: (F3) [W1] '
A:M44: (F3) +E45-E43
A:N44: (F3) [W1] '
A:O44: (F3) +G45-G43
A:P44: (F3) [W1] '
A:Q44: (F3) @SQRT((K44*K44)+(M44*M44))
A:R44: (F3) [W1] '
A:S44: (F3) @SQRT((O44*O44)+(Q44*Q44))
A:T44: (F3) [W1] '
A:U44: (F3) 100*(O44/Q44)
A:V44: (F3) [W1] '
A:W44: (F3)
@IF(K44=0#OR#M44=0,@IF(M44=0,@IF(K44<0,30,10),@IF(M44<0,40,20)),@IF(K44>0,@I
F(M44>0,1,4),@IF(M44>0,2,3)))
A:X44: (F3) [W1] '
A:Y44: (F3)
@IF(W44=10#OR#W44=20#OR#W44=30#OR#W44=40,@IF(W44=10#OR#W44=30,@IF(W4
4=10,0,180),@IF(W44=20,90,270)),@IF(W44=1#OR#W44=2,@IF(W44=1,@ABS(@ATAN(
M44/K44)),@ABS(@ATAN(K44/M44))+@PI/2),@IF(W44=3,@ATAN(M44/K44)+@PI,@AB
S(@ATAN(K44/M44))+3*@PI/2)))
A:Z44: (F3) [W1] '
A:AB44: (F3) [W1] '
A:AC44: (F3) @IF(Y44>2*@PI,Y44,Y44*180/@PI)
A:AD44: [W1] '
A:A45: {Page} 'B3
A:B45: [W1] '
A:C45: (F3) 232830.8862
A:D45: (F3) [W1] '
A:E45: (F3) 170508.3915
A:F45: (F4) [W1] '
A:G45: (F3) +G43+I44
A:H45: (F3) [W1] '
A:J45: (F3) [W1] '
A:L45: (F3) [W1] '
A:N45: (F3) [W1] '
A:P45: (F3) [W1] '
A:R45: (F3) [W1] '
A:T45: (F3) [W1] '
A:V45: (F3) [W1] '
A:X45: (F3) [W1] '
A:Z45: (F3) [W1] '
A:AB45: (F3) [W1] '

A:AD45: [W1] '
A:B46: [W1] '
A:D46: (F3) [W1] '
A:F46: (F4) [W1] '
A:H46: (F3) [W1] '
A:I46: (F3) [W14] (((@COS((198*@PI/180)-(AC46*@PI/180)))*0.013976)*Q46
A:J46: (F3) [W1] '
A:K46: (F3) +C47-C45
A:L46: (F3) [W1] '
A:M46: (F3) +E47-E45
A:N46: (F3) [W1] '
A:O46: (F3) +G47-G45
A:P46: (F3) [W1] '
A:Q46: (F3) @SQRT((K46*K46)+(M46*M46))
A:R46: (F3) [W1] '
A:S46: (F3) @SQRT((O46*O46)+(Q46*Q46))
A:T46: (F3) [W1] '
A:U46: (F3) 100*(O46/Q46)
A:V46: (F3) [W1] '
A:W46: (F3)
@IF(K46=0#OR#M46=0,@IF(M46=0,@IF(K46<0,30,10),@IF(M46<0,40,20)),@IF(K46>0,@I
F(M46>0,1,4),@IF(M46>0,2,3)))
A:X46: (F3) [W1] '
A:Y46: (F3)
@IF(W46=10#OR#W46=20#OR#W46=30#OR#W46=40,@IF(W46=10#OR#W46=30,@IF(W4
6=10,0,180),@IF(W46=20,90,270)),@IF(W46=1#OR#W46=2,@IF(W46=1,@ABS(@ATAN(
M46/K46)),@ABS(@ATAN(K46/M46))+@PI/2),@IF(W46=3,@ATAN(M46/K46)+@PI,@AB
S(@ATAN(K46/M46))+3*@PI/2)))
A:Z46: (F3) [W1] '
A:AB46: (F3) [W1] '
A:AC46: (F3) @IF(Y46>2*@PI,Y46,Y46*180/@PI)
A:AD46: [W1] '
A:A47: {Page} 'B4
A:B47: [W1] '
A:C47: (F3) 232708.9193
A:D47: (F3) [W1] '
A:E47: (F3) 170023.4956
A:F47: (F4) [W1] '
A:G47: (F3) +G45+I46
A:H47: (F3) [W1] '
A:J47: (F3) [W1] '
A:L47: (F3) [W1] '

A:N47: (F3) [W1] '
A:P47: (F3) [W1] '
A:R47: (F3) [W1] '
A:T47: (F3) [W1] '
A:V47: (F3) [W1] '
A:X47: (F3) [W1] '
A:Z47: (F3) [W1] '
A:AB47: (F3) [W1] '
A:AD47: [W1] '
A:B48: [W1] '
A:D48: (F3) [W1] '
A:F48: (F4) [W1] '
A:H48: (F3) [W1] '
A:I48: (F3) [W14] (((@COS((198*@PI/180)-(AC48*@PI/180)))*0.013976)*Q48
A:J48: (F3) [W1] '
A:K48: (F3) +C49-C47
A:L48: (F3) [W1] '
A:M48: (F3) +E49-E47
A:N48: (F3) [W1] '
A:O48: (F3) +G49-G47
A:P48: (F3) [W1] '
A:Q48: (F3) @SQRT((K48*K48)+(M48*M48))
A:R48: (F3) [W1] '
A:S48: (F3) @SQRT((O48*O48)+(Q48*Q48))
A:T48: (F3) [W1] '
A:U48: (F3) 100*(O48/Q48)
A:V48: (F3) [W1] '
A:W48: (F3)
@IF(K48=0#OR#M48=0,@IF(M48=0,@IF(K48<0,30,10),@IF(M48<0,40,20)),@IF(K48>0,@I
F(M48>0,1,4),@IF(M48>0,2,3)))
A:X48: (F3) [W1] '
A:Y48: (F3)
@IF(W48=10#OR#W48=20#OR#W48=30#OR#W48=40,@IF(W48=10#OR#W48=30,@IF(W4
8=10,0,180),@IF(W48=20,90,270)),@IF(W48=1#OR#W48=2,@IF(W48=1,@ABS(@ATAN(
M48/K48)),@ABS(@ATAN(K48/M48))+@PI/2),@IF(W48=3,@ATAN(M48/K48)+@PI,@AB
S(@ATAN(K48/M48))+3*@PI/2)))
A:Z48: (F3) [W1] '
A:AB48: (F3) [W1] '
A:AC48: (F3) @IF(Y48>2*@PI,Y48,Y48*180/@PI)
A:AD48: [W1] '
A:A49: {Page} 'B5
A:B49: [W1] '

A:C49: (F3) 231048.6809
A:D49: (F3) [W1] '
A:E49: (F3) 170441.1016
A:F49: (F4) [W1] '
A:G49: (F3) +G47+I48
A:H49: (F3) [W1] '
A:J49: (F3) [W1] '
A:L49: (F3) [W1] '
A:N49: (F3) [W1] '
A:P49: (F3) [W1] '
A:R49: (F3) [W1] '
A:T49: (F3) [W1] '
A:V49: (F3) [W1] '
A:X49: (F3) [W1] '
A:Z49: (F3) [W1] '
A:AB49: (F3) [W1] '
A:AD49: [W1] '
A:B50: [W1] '
A:D50: (F3) [W1] '
A:F50: (F4) [W1] '
A:H50: (F3) [W1] '
A:I50: (F3) [W14] (((@COS((198*@PI/180)-(AC50*@PI/180)))*0.013976)*Q50
A:J50: (F3) [W1] '
A:K50: (F3) +C51-C49
A:L50: (F3) [W1] '
A:M50: (F3) +E51-E49
A:N50: (F3) [W1] '
A:O50: (F3) +G51-G49
A:P50: (F3) [W1] '
A:Q50: (F3) @SQRT((K50*K50)+(M50*M50))
A:R50: (F3) [W1] '
A:S50: (F3) @SQRT((O50*O50)+(Q50*Q50))
A:T50: (F3) [W1] '
A:U50: (F3) 100*(O50/Q50)
A:V50: (F3) [W1] '
A:W50: (F3)
@IF(K50=0#OR#M50=0,@IF(M50=0,@IF(K50<0,30,10),@IF(M50<0,40,20)),@IF(K50>0,@I
F(M50>0,1,4),@IF(M50>0,2,3)))
A:X50: (F3) [W1] '
A:Y50: (F3)
@IF(W50=10#OR#W50=20#OR#W50=30#OR#W50=40,@IF(W50=10#OR#W50=30,@IF(W5
0=10,0,180),@IF(W50=20,90,270)),@IF(W50=1#OR#W50=2,@IF(W50=1,@ABS(@ATAN(

M50/K50)),@ABS(@ATAN(K50/M50))+@PI/2),@IF(W50=3,@ATAN(M50/K50)+@PI,@ABS(@ATAN(K50/M50))+3*@PI/2)))

A:Z50: (F3) [W1] "

A:AB50: (F3) [W1] "

A:AC50: (F3) @IF(Y50>2*@PI,Y50,Y50*180/@PI)

A:AD50: [W1] "

A:A51: {Page} 'B9

A:B51: [W1] "

A:C51: (F3) 231119.7957

A:D51: (F3) [W1] "

A:E51: (F3) 170723.8268

A:F51: (F4) [W1] "

A:G51: (F3) +G49+I50

A:H51: (F3) [W1] "

A:J51: (F3) [W1] "

A:L51: (F3) [W1] "

A:N51: (F3) [W1] "

A:P51: (F3) [W1] "

A:R51: (F3) [W1] "

A:T51: (F3) [W1] "

A:V51: (F3) [W1] "

A:X51: (F3) [W1] "

A:Z51: (F3) [W1] "

A:AB51: (F3) [W1] "

A:AD51: [W1] "

A:B52: [W1] "

A:D52: (F3) [W1] "

A:F52: (F4) [W1] "

A:H52: (F3) [W1] "

A:I52: (F3) [W14] (((@COS((198*@PI/180)-(AC52*@PI/180)))*0.013976)*Q52

A:J52: (F3) [W1] "

A:K52: (F3) +C53-C51

A:L52: (F3) [W1] "

A:M52: (F3) +E53-E51

A:N52: (F3) [W1] "

A:O52: (F3) +G53-G51

A:P52: (F3) [W1] "

A:Q52: (F3) @SQRT((K52*K52)+(M52*M52))

A:R52: (F3) [W1] "

A:S52: (F3) @SQRT((O52*O52)+(Q52*Q52))

A:T52: (F3) [W1] "

A:U52: (F3) 100*(O52/Q52)

A:V52: (F3) [W1] '
A:W52: (F3)
@IF(K52=0#OR#M52=0,@IF(M52=0,@IF(K52<0,30,10),@IF(M52<0,40,20)),@IF(K52>0,@IF(M52>0,1,4),@IF(M52>0,2,3)))
A:X52: (F3) [W1] '
A:Y52: (F3)
@IF(W52=10#OR#W52=20#OR#W52=30#OR#W52=40,@IF(W52=10#OR#W52=30,@IF(W52=10,0,180),@IF(W52=20,90,270)),@IF(W52=1#OR#W52=2,@IF(W52=1,@ABS(@ATAN(M52/K52)),@ABS(@ATAN(K52/M52))+@PI/2),@IF(W52=3,@ATAN(M52/K52)+@PI,@ABS(@ATAN(K52/M52))+3*@PI/2)))
A:Z52: (F3) [W1] '
A:AB52: (F3) [W1] '
A:AC52: (F3) @IF(Y52>2*@PI,Y52,Y52*180/@PI)
A:AD52: [W1] '
A:A53: {Page} 'C0
A:B53: [W1] '
A:C53: (F3) 231004.7437
A:D53: (F3) [W1] '
A:E53: (F3) 170991.6961
A:F53: (F4) [W1] '
A:G53: (F3) +G51+I52
A:H53: (F3) [W1] '
A:J53: (F3) [W1] '
A:L53: (F3) [W1] '
A:N53: (F3) [W1] '
A:P53: (F3) [W1] '
A:R53: (F3) [W1] '
A:T53: (F3) [W1] '
A:V53: (F3) [W1] '
A:X53: (F3) [W1] '
A:Z53: (F3) [W1] '
A:AB53: (F3) [W1] '
A:AD53: [W1] '
A:B54: [W1] '
A:D54: (F3) [W1] '
A:F54: (F4) [W1] '
A:H54: (F3) [W1] '
A:I54: (F3) [W14] (((@COS((198*@PI/180)-(AC54*@PI/180)))*0.013976)*Q54
A:J54: (F3) [W1] '
A:K54: (F3) +C55-C53
A:L54: (F3) [W1] '
A:M54: (F3) +E55-E53

A:N54: (F3) [W1] '
A:O54: (F3) +G55-G53
A:P54: (F3) [W1] '
A:Q54: (F3) @SQRT((K54*K54)+(M54*M54))
A:R54: (F3) [W1] '
A:S54: (F3) @SQRT((O54*O54)+(Q54*Q54))
A:T54: (F3) [W1] '
A:U54: (F3) 100*(O54/Q54)
A:V54: (F3) [W1] '
A:W54: (F3)
@IF(K54=0#OR#M54=0,@IF(M54=0,@IF(K54<0,30,10),@IF(M54<0,40,20)),@IF(K54>0,@I
F(M54>0,1,4),@IF(M54>0,2,3)))
A:X54: (F3) [W1] '
A:Y54: (F3)
@IF(W54=10#OR#W54=20#OR#W54=30#OR#W54=40,@IF(W54=10#OR#W54=30,@IF(W5
4=10,0,180),@IF(W54=20,90,270)),@IF(W54=1#OR#W54=2,@IF(W54=1,@ABS(@ATAN(
M54/K54)),@ABS(@ATAN(K54/M54))+@PI/2),@IF(W54=3,@ATAN(M54/K54)+@PI,@AB
S(@ATAN(K54/M54))+3*@PI/2)))
A:Z54: (F3) [W1] '
A:AB54: (F3) [W1] '
A:AC54: (F3) @IF(Y54>2*@PI,Y54,Y54*180/@PI)
A:AD54: [W1] '
A:A55: {Page} 'C1
A:B55: [W1] '
A:C55: (F3) 231274.1355
A:D55: (F3) [W1] '
A:E55: (F3) 171107.4021
A:F55: (F4) [W1] '
A:G55: (F3) +G53+I54
A:H55: (F3) [W1] '
A:I55: (F3) [W1] '
A:L55: (F3) [W1] '
A:N55: (F3) [W1] '
A:P55: (F3) [W1] '
A:R55: (F3) [W1] '
A:T55: (F3) [W1] '
A:V55: (F3) [W1] '
A:X55: (F3) [W1] '
A:Z55: (F3) [W1] '
A:AB55: (F3) [W1] '
A:AD55: [W1] '
A:B56: [W1] '

A:D56: (F3) [W1] '
A:F56: (F4) [W1] '
A:H56: (F3) [W1] '
A:I56: (F3) [W14] (((@COS((198*@PI/180)-(AC56*@PI/180)))*0.013976)*Q56
A:J56: (F3) [W1] '
A:K56: (F3) +C57-C55
A:L56: (F3) [W1] '
A:M56: (F3) +E57-E55
A:N56: (F3) [W1] '
A:O56: (F3) +G57-G55
A:P56: (F3) [W1] '
A:Q56: (F3) @SQRT((K56*K56)+(M56*M56))
A:R56: (F3) [W1] '
A:S56: (F3) @SQRT((O56*O56)+(Q56*Q56))
A:T56: (F3) [W1] '
A:U56: (F3) 100*(O56/Q56)
A:V56: (F3) [W1] '
A:W56: (F3)
@IF(K56=0#OR#M56=0,@IF(M56=0,@IF(K56<0,30,10),@IF(M56<0,40,20)),@IF(K56>0,@I
F(M56>0,1,4),@IF(M56>0,2,3)))
A:X56: (F3) [W1] '
A:Y56: (F3)
@IF(W56=10#OR#W56=20#OR#W56=30#OR#W56=40,@IF(W56=10#OR#W56=30,@IF(W5
6=10,0,180),@IF(W56=20,90,270)),@IF(W56=1#OR#W56=2,@IF(W56=1,@ABS(@ATAN(
M56/K56)),@ABS(@ATAN(K56/M56))+@PI/2),@IF(W56=3,@ATAN(M56/K56)+@PI,@AB
S(@ATAN(K56/M56))+3*@PI/2)))
A:Z56: (F3) [W1] '
A:AB56: (F3) [W1] '
A:AC56: (F3) @IF(Y56>2*@PI,Y56,Y56*180/@PI)
A:AD56: [W1] '
A:A57: {Page} 'C2
A:B57: [W1] '
A:C57: (F3) 231394.5055
A:D57: (F3) [W1] '
A:E57: (F3) 170827.1591
A:F57: (F4) [W1] '
A:G57: (F3) +G55+I56
A:H57: (F3) [W1] '
A:J57: (F3) [W1] '
A:L57: (F3) [W1] '
A:N57: (F3) [W1] '
A:P57: (F3) [W1] '

A:R57: (F3) [W1] '
A:T57: (F3) [W1] '
A:V57: (F3) [W1] '
A:X57: (F3) [W1] '
A:Z57: (F3) [W1] '
A:AB57: (F3) [W1] '
A:AD57: [W1] '
A:B58: [W1] '
A:D58: (F3) [W1] '
A:F58: (F4) [W1] '
A:H58: (F3) [W1] '
A:I58: (F3) [W14] (((@COS((198*@PI/180)-(AC58*@PI/180)))*0.013976)*Q58
A:J58: (F3) [W1] '
A:K58: (F3) +C59-C57
A:L58: (F3) [W1] '
A:M58: (F3) +E59-E57
A:N58: (F3) [W1] '
A:O58: (F3) +G59-G57
A:P58: (F3) [W1] '
A:Q58: (F3) @SQRT((K58*K58)+(M58*M58))
A:R58: (F3) [W1] '
A:S58: (F3) @SQRT((O58*O58)+(Q58*Q58))
A:T58: (F3) [W1] '
A:U58: (F3) 100*(O58/Q58)
A:V58: (F3) [W1] '
A:W58: (F3)
@IF(K58=0#OR#M58=0,@IF(M58=0,@IF(K58<0,30,10),@IF(M58<0,40,20)),@IF(K58>0,@I
F(M58>0,1,4),@IF(M58>0,2,3)))
A:X58: (F3) [W1] '
A:Y58: (F3)
@IF(W58=10#OR#W58=20#OR#W58=30#OR#W58=40,@IF(W58=10#OR#W58=30,@IF(W5
8=10,0,180),@IF(W58=20,90,270)),@IF(W58=1#OR#W58=2,@IF(W58=1,@ABS(@ATAN(
M58/K58)),@ABS(@ATAN(K58/M58))+@PI/2),@IF(W58=3,@ATAN(M58/K58)+@PI,@AB
S(@ATAN(K58/M58))+3*@PI/2)))
A:Z58: (F3) [W1] '
A:AB58: (F3) [W1] '
A:AC58: (F3) @IF(Y58>2*@PI,Y58,Y58*180/@PI)
A:AD58: [W1] '
A:A59: {Page} 'C3
A:B59: [W1] '
A:C59: (F3) 231378.5468
A:D59: (F3) [W1] '

A:E59: (F3) 171131.7411
A:F59: (F4) [W1] '
A:G59: (F3) +G57+I58
A:H59: (F3) [W1] '
A:I59: (F3) [W1] '
A:L59: (F3) [W1] '
A:N59: (F3) [W1] '
A:P59: (F3) [W1] '
A:R59: (F3) [W1] '
A:T59: (F3) [W1] '
A:V59: (F3) [W1] '
A:X59: (F3) [W1] '
A:Z59: (F3) [W1] '
A:AB59: (F3) [W1] '
A:AD59: [W1] '
A:B60: [W1] '
A:D60: (F3) [W1] '
A:F60: (F4) [W1] '
A:H60: (F3) [W1] '
A:I60: (F3) [W14] (((@COS((198*@PI/180)-(AC60*@PI/180)))*0.013976)*Q60
A:J60: (F3) [W1] '
A:K60: (F3) +C61-C59
A:L60: (F3) [W1] '
A:M60: (F3) +E61-E59
A:N60: (F3) [W1] '
A:O60: (F3) +G61-G59
A:P60: (F3) [W1] '
A:Q60: (F3) @SQRT((K60*K60)+(M60*M60))
A:R60: (F3) [W1] '
A:S60: (F3) @SQRT((O60*O60)+(Q60*Q60))
A:T60: (F3) [W1] '
A:U60: (F3) 100*(O60/Q60)
A:V60: (F3) [W1] '
A:W60: (F3)
@IF(K60=0#OR#M60=0,@IF(M60=0,@IF(K60<0,30,10),@IF(M60<0,40,20)),@IF(K60>0,@I
F(M60>0,1,4),@IF(M60>0,2,3)))
A:X60: (F3) [W1] '
A:Y60: (F3)
@IF(W60=10#OR#W60=20#OR#W60=30#OR#W60=40,@IF(W60=10#OR#W60=30,@IF(W6
0=10,0,180),@IF(W60=20,90,270)),@IF(W60=1#OR#W60=2,@IF(W60=1,@ABS(@ATAN(
M60/K60)),@ABS(@ATAN(K60/M60))+@PI/2),@IF(W60=3,@ATAN(M60/K60)+@PI,@AB
S(@ATAN(K60/M60))+3*@PI/2)))

A:Z60: (F3) [W1] '
A:AB60: (F3) [W1] '
A:AC60: (F3) @IF(Y60>2*@PI,Y60,Y60*180/@PI)
A:AD60: [W1] '
A:A61: {Page} 'C4
A:B61: [W1] '
A:C61: (F3) 231777.4034
A:D61: (F3) [W1] '
A:E61: (F3) 171152.6444
A:F61: (F4) [W1] '
A:G61: (F3) +G59+I60
A:H61: (F3) [W1] '
A:J61: (F3) [W1] '
A:L61: (F3) [W1] '
A:N61: (F3) [W1] '
A:P61: (F3) [W1] '
A:R61: (F3) [W1] '
A:T61: (F3) [W1] '
A:V61: (F3) [W1] '
A:X61: (F3) [W1] '
A:Z61: (F3) [W1] '
A:AB61: (F3) [W1] '
A:AD61: [W1] '
A:B62: [W1] '
A:D62: (F3) [W1] '
A:F62: (F4) [W1] '
A:H62: (F3) [W1] '
A:J62: (F3) [W14] (((@COS((198*@PI/180)-(AC62*@PI/180)))*0.013976)*Q62
A:J62: (F3) [W1] '
A:K62: (F3) +C63-C61
A:L62: (F3) [W1] '
A:M62: (F3) +E63-E61
A:N62: (F3) [W1] '
A:O62: (F3) +G63-G61
A:P62: (F3) [W1] '
A:Q62: (F3) @SQRT((K62*K62)+(M62*M62))
A:R62: (F3) [W1] '
A:S62: (F3) @SQRT((O62*O62)+(Q62*Q62))
A:T62: (F3) [W1] '
A:U62: (F3) 100*(O62/Q62)
A:V62: (F3) [W1] '
A:W62: (F3)

@IF(K62=0#OR#M62=0,@IF(M62=0,@IF(K62<0,30,10),@IF(M62<0,40,20)),@IF(K62>0,@IF(M62>0,1,4),@IF(M62>0,2,3)))

A:X62: (F3) [W1] "

A:Y62: (F3)

@IF(W62=10#OR#W62=20#OR#W62=30#OR#W62=40,@IF(W62=10#OR#W62=30,@IF(W62=10,0,180),@IF(W62=20,90,270)),@IF(W62=1#OR#W62=2,@IF(W62=1,@ABS(@ATAN(M62/K62)),@ABS(@ATAN(K62/M62))+@PI/2),@IF(W62=3,@ATAN(M62/K62)+@PI,@ABS(@ATAN(K62/M62))+3*@PI/2)))

A:Z62: (F3) [W1] "

A:AB62: (F3) [W1] "

A:AC62: (F3) @IF(Y62>2*@PI,Y62,Y62*180/@PI)

A:AD62: [W1] "

A:A63: {Page} 'C5

A:B63: [W1] "

A:C63: (F3) 231770.5344

A:D63: (F3) [W1] "

A:E63: (F3) 171173.7844

A:F63: (F4) [W1] "

A:G63: (F3) +G61+I62

A:H63: (F3) [W1] "

A:I63: (F3) [W1] "

A:L63: (F3) [W1] "

A:N63: (F3) [W1] "

A:P63: (F3) [W1] "

A:R63: (F3) [W1] "

A:T63: (F3) [W1] "

A:V63: (F3) [W1] "

A:X63: (F3) [W1] "

A:Z63: (F3) [W1] "

A:AB63: (F3) [W1] "

A:AD63: [W1] "

A:B64: [W1] "

A:D64: (F3) [W1] "

A:F64: (F4) [W1] "

A:H64: (F3) [W1] "

A:I64: (F3) [W14] (((@COS((198*@PI/180)-(AC64*@PI/180)))*0.013976)*Q64

A:J64: (F3) [W1] "

A:K64: (F3) +C65-C63

A:L64: (F3) [W1] "

A:M64: (F3) +E65-E63

A:N64: (F3) [W1] "

A:O64: (F3) +G65-G63

A:P64: (F3) [W1] '
A:Q64: (F3) @SQRT((K64*K64)+(M64*M64))
A:R64: (F3) [W1] '
A:S64: (F3) @SQRT((O64*O64)+(Q64*Q64))
A:T64: (F3) [W1] '
A:U64: (F3) 100*(O64/Q64)
A:V64: (F3) [W1] '
A:W64: (F3)
@IF(K64=0#OR#M64=0,@IF(M64=0,@IF(K64<0,30,10),@IF(M64<0,40,20)),@IF(K64>0,@I
F(M64>0,1,4),@IF(M64>0,2,3)))
A:X64: (F3) [W1] '
A:Y64: (F3)
@IF(W64=10#OR#W64=20#OR#W64=30#OR#W64=40,@IF(W64=10#OR#W64=30,@IF(W6
4=10,0,180),@IF(W64=20,90,270)),@IF(W64=1#OR#W64=2,@IF(W64=1,@ABS(@ATAN(
M64/K64)),@ABS(@ATAN(K64/M64))+@PI/2),@IF(W64=3,@ATAN(M64/K64)+@PI,@AB
S(@ATAN(K64/M64))+3*@PI/2)))
A:Z64: (F3) [W1] '
A:AB64: (F3) [W1] '
A:AC64: (F3) @IF(Y64>2*@PI,Y64,Y64*180/@PI)
A:AD64: [W1] '
A:A65: {Page} 'C6
A:B65: [W1] '
A:C65: (F3) 231746.7579
A:D65: (F3) [W1] '
A:E65: (F3) 171166.0592
A:F65: (F4) [W1] '
A:G65: (F3) +G63+I64
A:H65: (F3) [W1] '
A:J65: (F3) [W1] '
A:L65: (F3) [W1] '
A:N65: (F3) [W1] '
A:P65: (F3) [W1] '
A:R65: (F3) [W1] '
A:T65: (F3) [W1] '
A:V65: (F3) [W1] '
A:X65: (F3) [W1] '
A:Z65: (F3) [W1] '
A:AB65: (F3) [W1] '
A:AD65: [W1] '
A:B66: [W1] '
A:D66: (F3) [W1] '
A:F66: (F4) [W1] '

A:H66: (F3) [W1] '
A:I66: (F3) [W14] (((@COS((198*@PI/180)-(AC66*@PI/180)))*0.013976)*Q66
A:J66: (F3) [W1] '
A:K66: (F3) +C67-C65
A:L66: (F3) [W1] '
A:M66: (F3) +E67-E65
A:N66: (F3) [W1] '
A:O66: (F3) +G67-G65
A:P66: (F3) [W1] '
A:Q66: (F3) @SQRT((K66*K66)+(M66*M66))
A:R66: (F3) [W1] '
A:S66: (F3) @SQRT((O66*O66)+(Q66*Q66))
A:T66: (F3) [W1] '
A:U66: (F3) 100*(O66/Q66)
A:V66: (F3) [W1] '
A:W66: (F3)
@IF(K66=0#OR#M66=0,@IF(M66=0,@IF(K66<0,30,10),@IF(M66<0,40,20)),@IF(K66>0,@I
F(M66>0,1,4),@IF(M66>0,2,3)))
A:X66: (F3) [W1] '
A:Y66: (F3)
@IF(W66=10#OR#W66=20#OR#W66=30#OR#W66=40,@IF(W66=10#OR#W66=30,@IF(W6
6=10,0,180),@IF(W66=20,90,270)),@IF(W66=1#OR#W66=2,@IF(W66=1,@ABS(@ATAN(
M66/K66)),@ABS(@ATAN(K66/M66))+@PI/2),@IF(W66=3,@ATAN(M66/K66)+@PI,@AB
S(@ATAN(K66/M66))+3*@PI/2)))
A:Z66: (F3) [W1] '
A:AB66: (F3) [W1] '
A:AC66: (F3) @IF(Y66>2*@PI,Y66,Y66*180/@PI)
A:AD66: [W1] '
A:A67: {Page} 'C7
A:B67: [W1] '
A:C67: (F3) 231745.4489
A:D67: (F3) [W1] '
A:E67: (F3) 171191.0249
A:F67: (F4) [W1] '
A:G67: (F3) +G65+I66
A:H67: (F3) [W1] '
A:J67: (F3) [W1] '
A:L67: (F3) [W1] '
A:N67: (F3) [W1] '
A:P67: (F3) [W1] '
A:R67: (F3) [W1] '
A:T67: (F3) [W1] '

A:V67: (F3) [W1] '
A:X67: (F3) [W1] '
A:Z67: (F3) [W1] '
A:AB67: (F3) [W1] '
A:AD67: [W1] '
A:B68: [W1] '
A:D68: (F3) [W1] '
A:F68: (F4) [W1] '
A:H68: (F3) [W1] '
A:I68: (F3) [W14] (((@COS((198*@PI/180)-(AC68*@PI/180)))*0.013976)*Q68
A:J68: (F3) [W1] '
A:K68: (F3) +C69-C67
A:L68: (F3) [W1] '
A:M68: (F3) +E69-E67
A:N68: (F3) [W1] '
A:O68: (F3) +G69-G67
A:P68: (F3) [W1] '
A:Q68: (F3) @SQRT((K68*K68)+(M68*M68))
A:R68: (F3) [W1] '
A:S68: (F3) @SQRT((O68*O68)+(Q68*Q68))
A:T68: (F3) [W1] '
A:U68: (F3) 100*(O68/Q68)
A:V68: (F3) [W1] '
A:W68: (F3)
@IF(K68=0#OR#M68=0,@IF(M68=0,@IF(K68<0,30,10),@IF(M68<0,40,20)),@IF(K68>0,@I
F(M68>0,1,4),@IF(M68>0,2,3)))
A:X68: (F3) [W1] '
A:Y68: (F3)
@IF(W68=10#OR#W68=20#OR#W68=30#OR#W68=40,@IF(W68=10#OR#W68=30,@IF(W6
8=10,0,180),@IF(W68=20,90,270)),@IF(W68=1#OR#W68=2,@IF(W68=1,@ABS(@ATAN(
M68/K68)),@ABS(@ATAN(K68/M68))+@PI/2),@IF(W68=3,@ATAN(M68/K68)+@PI,@AB
S(@ATAN(K68/M68))+3*@PI/2)))
A:Z68: (F3) [W1] '
A:AB68: (F3) [W1] '
A:AC68: (F3) @IF(Y68>2*@PI,Y68,Y68*180/@PI)
A:AD68: [W1] '
A:A69: {Page} ' C8 (CLOSE)
A:B69: [W1] '
A:C69: (F3) 234087.7421
A:D69: (F3) [W1] '
A:E69: (F3) 171313.7778
A:F69: (F4) [W1] '

A:G69: (F3) +G67+I68
A:H69: (F3) [W1] '
A:J69: (F3) [W1] '
A:L69: (F3) [W1] '
A:N69: (F3) [W1] '
A:P69: (F3) [W1] '
A:R69: (F3) [W1] '
A:T69: (F3) [W1] '
A:V69: (F3) [W1] '
A:X69: (F3) [W1] '
A:Z69: (F3) [W1] '
A:AB69: (F3) [W1] '
A:AD69: [W1] '

Attachment V

**Cell Contents of Spreadsheet
used to
Generate Table 7-5**

(Also includes a copy of the Table with Rows/Columns labeled)

A:A1: {Page 1/1} 'LOBLKVRT.WK1

A:E1: {Page Arial MT14} 'TABLE 7-5 -

A:G1: {Page Arial MT14} 'LOWER BLOCK VERTICAL TRAVERSE

A:A5: {Page} 'COORDINATE CHECKER WORKSHEET

A:G5: 'CALCULATES DISTANCE, AZIMUTH, & SLOPE (GRADE) BETWEEN
GIVEN SETS OF COORDINATES

A:A6: {Page} \

A:C6: \

A:D6: [W1] '

A:E6: \

A:F6: [W1] \

A:K6: '

A:L6: [W1] '

A:M6: '

A:N6: [W1] '

A:O6: '

A:P6: [W1] \

A:Q6: \

A:R6: [W1] \

A:S6: \

A:T6: [W1] \

A:U6: \

A:V6: [W1] \

A:W6: '

A:X6: [W1] '

A:AB6: [W1] '

A:AC6: \

A:A7: {Page} ^Column A

A:B7: [W1] \

A:C7: ^Column C

A:D7: [W1] \

A:E7: ^Column E

A:F7: [W1] \

A:K7: '

A:L7: [W1] '

A:M7: '

A:N7: [W1] '

A:P7: [W1] \

A:Q7: ^Column Q

A:R7: [W1] \

A:S7: ^Column S

A:T7: [W1] \

A:U7: ^Column U
A:V7: [W1] \\
A:AB7: [W1] \\
A:AC7: ^Column AC
A:AD7: [W1] \\
A:A8: {Page} Enter Pt. #
A:B8: [W1] \\
A:C8: ^Enter
A:D8: [W1] \\
A:E8: ^Enter
A:F8: [W1] \\
A:K8: '
A:L8: [W1] '
A:N8: [W1] '
A:P8: [W1] \\
A:Q8: ^Read
A:R8: [W1] \\
A:S8: ^Read
A:T8: [W1] \\
A:U8: ^Read
A:V8: [W1] \\
A:W8: "PI/2=
A:Y8: @ROUND(@PI/2,6)
A:AB8: [W1] \\
A:AC8: ^Read
A:AD8: [W1] \\
A:B9: [W1] \\
A:C9: ^Northing
A:D9: [W1] \\
A:E9: ^Easting
A:F9: [W1] \\
A:L9: [W1] '
A:N9: [W1] '
A:P9: [W1] \\
A:Q9: ^Horiz. Dist.
A:R9: [W1] \\
A:S9: ^Slope Dist.
A:T9: [W1] \\
A:U9: ^Slope (%)
A:V9: [W1] \\
A:W9: "3PI/2=
A:Y9: @ROUND(3*@PI/2,6)

A:AB9: [W1] \\
A:AC9: 'Map Azimuth
A:AD9: [W1] \\
A:A10: {Page} _
A:B10: [W1] \\
A:C10: _
A:D10: [W1] \\
A:E10: _
A:F10: [W1] \\
A:K10: '
A:L10: [W1] '
A:M10: '
A:N10: [W1] '
A:O10: '
A:P10: [W1] \\
A:Q10: _
A:R10: [W1] \\
A:S10: _
A:T10: [W1] \\
A:U10: _
A:V10: [W1] \\
A:W10: '
A:X10: [W1] '
A:Y10: '
A:Z10: [W1] '
A:AA10: '
A:AB10: [W1] \\
A:AC10: ^{Dec. Deg.)
A:AD10: [W1] \\
A:AB11: [W1] \\
A:AC11: _
A:AD11: [W1] \\
A:C12: "TNPUS
A:AD12: [W1] '
A:A13: {Page} \=
A:B13: [W1] '=
A:C13: \=
A:D13: [W1] '=
A:E13: \=
A:F13: [W1] '=
A:G13: \=
A:H13: [W1] '=

A:I13: [W14] \=
A:J13: [W1] \=
A:K13: \=
A:L13: [W1] \=
A:M13: \=
A:N13: [W1] \=
A:O13: \=
A:P13: [W1] \=
A:Q13: \=
A:R13: [W1] \=
A:S13: \=
A:T13: [W1] \=
A:U13: \=
A:V13: [W1] \=
A:W13: \=
A:Y13: ^MAP AZIMUTH
A:AA13: \=
A:AC13: ^MAP AZIMUTH
A:AD13: [W1] '
A:A14: {Page} ^POINT
A:C14: ^NORTH
A:E14: ^EAST
A:G14: ^ELEVATION
A:H14: (F4) [W1] '
A:I14: [W14] ^dELEV
A:J14: [W1] '
A:K14: ^dN
A:M14: ^dE
A:O14: ^dELEV
A:Q14: ^HORIZ. DIST.
A:S14: ^SLOPE DIST.
A:U14: ^SLOPE (%)
A:W14: ^QUADRANT
A:Y14: ^(^RADS)
A:AC14: ^(^DEC. DEG.)
A:A15: {Page} \=
A:B15: [W1] \=
A:C15: \=
A:D15: [W1] \=
A:E15: \=
A:F15: [W1] \=
A:G15: \=

A:H15: [W1] '=
A:I15: [W14] \=
A:J15: [W1] '=
A:K15: \=
A:L15: [W1] '=
A:M15: \=
A:N15: [W1] '=
A:O15: \=
A:P15: [W1] '=
A:Q15: \=
A:R15: [W1] '=
A:S15: \=
A:T15: [W1] '=
A:U15: \=
A:V15: [W1] '=
A:W15: \=
A:X15: [W1] '=
A:Y15: \=
A:Z15: [W1] \=
A:AA15: \=
A:AB15: [W1] \=
A:AC15: \=
A:AD15: [W1] \=
A:B16: [W1] '|
A:D16: (F4) [W1] '|
A:F16: (F4) [W1] '|
A:H16: (F4) [W1] '|
A:J16: (F3) [W1] '|
A:L16: (F3) [W1] '|
A:N16: (F3) [W1] '|
A:P16: (F3) [W1] '|
A:R16: (F3) [W1] '|
A:T16: (F3) [W1] '|
A:V16: (F2) [W1] '|
A:X16: (F2) [W1] '|
A:Z16: (F4) [W1] '|
A:AB16: (F4) [W1] '|
A:AD16: (F2) [W1] '|
A:A17: {Page} 'H1
A:B17: [W1] '|
A:C17: (F3) 233702.005
A:D17: (F3) [W1] '|

A:E17: (F3) 171563.934

A:F17: (F3) [W1] "

A:G17: (F3) 998

A:H17: (F3) [W1] "

A:J17: (F3) [W1] "

A:L17: (F3) [W1] "

A:N17: (F3) [W1] "

A:P17: (F3) [W1] "

A:R17: (F3) [W1] "

A:T17: (F3) [W1] "

A:V17: (F3) [W1] "

A:X17: (F3) [W1] "

A:Z17: (F3) [W1] "

A:AB17: (F3) [W1] "

A:AD17: (F3) [W1] "

A:B18: [W1] "

A:D18: (F3) [W1] "

A:F18: (F3) [W1] "

A:H18: (F3) [W1] "

A:I18: (F3) [W14] (((@COS((198*@PI/180)-(AC18*@PI/180)))*0.013976)*Q18

A:J18: (F3) [W1] "

A:K18: (F3) +C19-C17

A:L18: (F3) [W1] "

A:M18: (F3) +E19-E17

A:N18: (F3) [W1] "

A:O18: (F3) +G19-G17

A:P18: (F3) [W1] "

A:Q18: (F3) @SQRT((K18*K18)+(M18*M18))

A:R18: (F3) [W1] "

A:S18: (F3) @SQRT((O18*O18)+(Q18*Q18))

A:T18: (F3) [W1] "

A:U18: (F3) 100*(O18/Q18)

A:V18: (F3) [W1] "

A:W18: (F0)

@IF(K18=0#OR#M18=0,@IF(M18=0,@IF(K18<0,30,10),@IF(M18<0,40,20)),@IF(K18>0,@I
F(M18>0,1,4),@IF(M18>0,2,3)))

A:X18: (F3) [W1] "

A:Y18: (F3)

@IF(W18=10#OR#W18=20#OR#W18=30#OR#W18=40,@IF(W18=10#OR#W18=30,@IF(W1
8=10,0,180),@IF(W18=20,90,270)),@IF(W18=1#OR#W18=2,@IF(W18=1,@ABS(@ATAN(
M18/K18)),@ABS(@ATAN(K18/M18))+@PI/2),@IF(W18=3,@ATAN(M18/K18)+@PI,@AB
S(@ATAN(K18/M18))+3*@PI/2)))

A:Z18: (F3) [W1] '
A:AB18: (F3) [W1] '
A:AC18: (F3) @IF(Y18>2*@PI,Y18,Y18*180/@PI)
A:AD18: (F3) [W1] '
A:A19: {Page} D6
A:B19: [W1] '
A:C19: (F3) 232492.391
A:D19: (F3) [W1] '
A:E19: (F3) 171500.5402
A:F19: (F3) [W1] '
A:G19: (F3) +G17+I18
A:H19: (F3) [W1] '
A:J19: (F3) [W1] '
A:L19: (F3) [W1] '
A:N19: (F3) [W1] '
A:P19: (F3) [W1] '
A:R19: (F3) [W1] '
A:T19: (F3) [W1] '
A:V19: (F3) [W1] '
A:X19: (F3) [W1] '
A:Z19: (F3) [W1] '
A:AB19: (F3) [W1] '
A:AD19: (F3) [W1] '
A:B20: [W1] '
A:D20: (F3) [W1] '
A:F20: (F3) [W1] '
A:H20: (F3) [W1] '
A:I20: (F3) [W14] (((@COS((198*@PI/180)-(AC20*@PI/180)))*0.013976)*Q20
A:J20: (F3) [W1] '
A:K20: (F3) +C21-C19
A:L20: (F3) [W1] '
A:M20: (F3) +E21-E19
A:N20: (F3) [W1] '
A:O20: (F3) +G21-G19
A:P20: (F3) [W1] '
A:Q20: (F3) @SQRT((K20*K20)+(M20*M20))
A:R20: (F3) [W1] '
A:S20: (F3) @SQRT((O20*O20)+(Q20*Q20))
A:T20: (F3) [W1] '
A:U20: (F3) 100*(O20/Q20)
A:V20: (F3) [W1] '
A:W20: (F0)

@IF(K20=0#OR#M20=0,@IF(M20=0,@IF(K20<0,30,10),@IF(M20<0,40,20)),@IF(K20>0,@IF(M20>0,1,4),@IF(M20>0,2,3)))

A:X20: (F3) [W1] "

A:Y20: (F3)

@IF(W20=10#OR#W20=20#OR#W20=30#OR#W20=40,@IF(W20=10#OR#W20=30,@IF(W20=10,0,180),@IF(W20=20,90,270)),@IF(W20=1#OR#W20=2,@IF(W20=1,@ABS(@ATAN(M20/K20)),@ABS(@ATAN(K20/M20))+@PI/2),@IF(W20=3,@ATAN(M20/K20)+@PI,@ABS(@ATAN(K20/M20))+3*@PI/2)))

A:Z20: (F3) [W1] "

A:AB20: (F3) [W1] "

A:AC20: (F3) @IF(Y20>2*@PI,Y20,Y20*180/@PI)

A:AD20: (F3) [W1] "

A:A21: {Page} 'D7

A:B21: [W1] "

A:C21: (F3) 232127.2551

A:D21: (F3) [W1] "

A:E21: (F3) 171481.4041

A:F21: (F3) [W1] "

A:G21: (F3) +G19+I20

A:H21: (F3) [W1] "

A:J21: (F3) [W1] "

A:L21: (F3) [W1] "

A:N21: (F3) [W1] "

A:P21: (F3) [W1] "

A:R21: (F3) [W1] "

A:T21: (F3) [W1] "

A:V21: (F3) [W1] "

A:X21: (F3) [W1] "

A:Z21: (F3) [W1] "

A:AB21: (F3) [W1] "

A:AD21: (F3) [W1] "

A:B22: [W1] "

A:D22: (F3) [W1] "

A:F22: (F3) [W1] "

A:H22: (F3) [W1] "

A:I22: (F3) [W14] ((@COS((198*@PI/180)-(AC22*@PI/180)))*0.013976)*Q22

A:J22: (F3) [W1] "

A:K22: (F3) +C23-C21

A:L22: (F3) [W1] "

A:M22: (F3) +E23-E21

A:N22: (F3) [W1] "

A:O22: (F3) +G23-G21

A:P22: (F3) [W1] '
A:Q22: (F3) @SQRT((K22*K22)+(M22*M22))
A:R22: (F3) [W1] '
A:S22: (F3) @SQRT((O22*O22)+(Q22*Q22))
A:T22: (F3) [W1] '
A:U22: (F3) 100*(O22/Q22)
A:V22: (F3) [W1] '
A:W22: (F0)
@IF(K22=0#OR#M22=0,@IF(M22=0,@IF(K22<0,30,10),@IF(M22<0,40,20)),@IF(K22>0,@I
F(M22>0,1,4),@IF(M22>0,2,3)))
A:X22: (F3) [W1] '
A:Y22: (F3)
@IF(W22=10#OR#W22=20#OR#W22=30#OR#W22=40,@IF(W22=10#OR#W22=30,@IF(W2
2=10,0,180),@IF(W22=20,90,270)),@IF(W22=1#OR#W22=2,@IF(W22=1,@ABS(@ATAN(
M22/K22)),@ABS(@ATAN(K22/M22))+@PI/2),@IF(W22=3,@ATAN(M22/K22)+@PI,@AB
S(@ATAN(K22/M22))+3*@PI/2)))
A:Z22: (F3) [W1] '
A:AB22: (F3) [W1] '
A:AC22: (F3) @IF(Y22>2*@PI,Y22,Y22*180/@PI)
A:AD22: (F3) [W1] '
A:A23: {Page} 'D8
A:B23: [W1] '
A:C23: (F3) 232119.4048
A:D23: (F3) [W1] '
A:E23: (F3) 171631.1985
A:F23: (F3) [W1] '
A:G23: (F3) +G21+I22
A:H23: (F3) [W1] '
A:J23: (F3) [W1] '
A:L23: (F3) [W1] '
A:N23: (F3) [W1] '
A:P23: (F3) [W1] '
A:R23: (F3) [W1] '
A:T23: (F3) [W1] '
A:V23: (F3) [W1] '
A:X23: (F3) [W1] '
A:Z23: (F3) [W1] '
A:AB23: (F3) [W1] '
A:AD23: (F3) [W1] '
A:B24: [W1] '
A:D24: (F3) [W1] '
A:F24: (F3) [W1] '

A:H24: (F3) [W1] "
A:I24: (F3) [W14] (((@COS((198*@PI/180)-(AC24*@PI/180)))*0.013976)*Q24
A:J24: (F3) [W1] "
A:K24: (F3) +C25-C23
A:L24: (F3) [W1] "
A:M24: (F3) +E25-E23
A:N24: (F3) [W1] "
A:O24: (F3) +G25-G23
A:P24: (F3) [W1] "
A:Q24: (F3) @SQRT((K24*K24)+(M24*M24))
A:R24: (F3) [W1] "
A:S24: (F3) @SQRT((O24*O24)+(Q24*Q24))
A:T24: (F3) [W1] "
A:U24: (F3) 100*(O24/Q24)
A:V24: (F3) [W1] "
A:W24: (F0)
@IF(K24=0#OR#M24=0,@IF(M24=0,@IF(K24<0,30,10),@IF(M24<0,40,20)),@IF(K24>0,@I
F(M24>0,1,4),@IF(M24>0,2,3)))
A:X24: (F3) [W1] "
A:Y24: (F3)
@IF(W24=10#OR#W24=20#OR#W24=30#OR#W24=40,@IF(W24=10#OR#W24=30,@IF(W2
4=10,0,180),@IF(W24=20,90,270)),@IF(W24=1#OR#W24=2,@IF(W24=1,@ABS(@ATAN(
M24/K24)),@ABS(@ATAN(K24/M24))+@PI/2),@IF(W24=3,@ATAN(M24/K24)+@PI,@AB
S(@ATAN(K24/M24))+3*@PI/2)))
A:Z24: (F3) [W1] "
A:AB24: (F3) [W1] "
A:AC24: (F3) @IF(Y24>2*@PI,Y24,Y24*180/@PI)
A:AD24: (F3) [W1] "
A:A25: {Page} 'D9
A:B25: [W1] "
A:C25: (F3) 232049.2648
A:D25: (F3) [W1] "
A:E25: (F3) 171763.7896
A:F25: (F3) [W1] "
A:G25: (F3) +G23+I24
A:H25: (F3) [W1] "
A:J25: (F3) [W1] "
A:L25: (F3) [W1] "
A:N25: (F3) [W1] "
A:P25: (F3) [W1] "
A:R25: (F3) [W1] "
A:T25: (F3) [W1] "

A:V25: (F3) [W1] '
A:X25: (F3) [W1] '
A:Z25: (F3) [W1] '
A:AB25: (F3) [W1] '
A:AD25: (F3) [W1] '
A:B26: [W1] '
A:D26: (F3) [W1] '
A:F26: (F3) [W1] '
A:H26: (F3) [W1] '
A:I26: (F3) [W14] (((@COS((198*@PI/180)-(AC26*@PI/180)))*0.013976)*Q26
A:J26: (F3) [W1] '
A:K26: (F3) +C27-C25
A:L26: (F3) [W1] '
A:M26: (F3) +E27-E25
A:N26: (F3) [W1] '
A:O26: (F3) +G27-G25
A:P26: (F3) [W1] '
A:Q26: (F3) @SQRT((K26*K26)+(M26*M26))
A:R26: (F3) [W1] '
A:S26: (F3) @SQRT((O26*O26)+(Q26*Q26))
A:T26: (F3) [W1] '
A:U26: (F3) 100*(O26/Q26)
A:V26: (F3) [W1] '
A:W26: (F0)

@IF(K26=0#OR#M26=0,@IF(M26=0,@IF(K26<0,30,10),@IF(M26<0,40,20)),@IF(K26>0,@I
F(M26>0,1,4),@IF(M26>0,2,3)))

A:X26: (F3) [W1] '
A:Y26: (F3)

@IF(W26=10#OR#W26=20#OR#W26=30#OR#W26=40,@IF(W26=10#OR#W26=30,@IF(W2
6=10,0,180),@IF(W26=20,90,270)),@IF(W26=1#OR#W26=2,@IF(W26=1,@ABS(@ATAN(
M26/K26)),@ABS(@ATAN(K26/M26))+@PI/2),@IF(W26=3,@ATAN(M26/K26)+@PI,@AB
S(@ATAN(K26/M26))+3*@PI/2)))

A:Z26: (F3) [W1] '
A:AB26: (F3) [W1] '
A:AC26: (F3) @IF(Y26>2*@PI,Y26,Y26*180/@PI)
A:AD26: (F3) [W1] '
A:A27: {Page} 'E0
A:B27: [W1] '
A:C27: (F3) 233030.7985
A:D27: (F3) [W1] '
A:E27: (F3) 172283.0089
A:F27: (F3) [W1] '

A:G27: (F3) +G25+I26
A:H27: (F3) [W1] '
A:J27: (F3) [W1] '
A:L27: (F3) [W1] '
A:N27: (F3) [W1] '
A:P27: (F3) [W1] '
A:R27: (F3) [W1] '
A:T27: (F3) [W1] '
A:V27: (F3) [W1] '
A:X27: (F3) [W1] '
A:Z27: (F3) [W1] '
A:AB27: (F3) [W1] '
A:AD27: (F3) [W1] '
A:B28: [W1] '
A:D28: (F3) [W1] '
A:F28: (F3) [W1] '
A:H28: (F3) [W1] '
A:I28: (F3) [W14] ((@COS((198*@PI/180)-(AC28*@PI/180)))*0.013976)*Q28
A:J28: (F3) [W1] '
A:K28: (F3) +C29-C27
A:L28: (F3) [W1] '
A:M28: (F3) +E29-E27
A:N28: (F3) [W1] '
A:O28: (F3) +G29-G27
A:P28: (F3) [W1] '
A:Q28: (F3) @SQRT((K28*K28)+(M28*M28))
A:R28: (F3) [W1] '
A:S28: (F3) @SQRT((O28*O28)+(Q28*Q28))
A:T28: (F3) [W1] '
A:U28: (F3) 100*(O28/Q28)
A:V28: (F3) [W1] '
A:W28: (F0)
@IF(K28=0#OR#M28=0,@IF(M28=0,@IF(K28<0,30,10),@IF(M28<0,40,20)),@IF(K28>0,@I
F(M28>0,1,4),@IF(M28>0,2,3)))
A:X28: (F3) [W1] '
A:Y28: (F3)
@IF(W28=10#OR#W28=20#OR#W28=30#OR#W28=40,@IF(W28=10#OR#W28=30,@IF(W2
8=10,0,180),@IF(W28=20,90,270)),@IF(W28=1#OR#W28=2,@IF(W28=1,@ABS(@ATAN(
M28/K28)),@ABS(@ATAN(K28/M28))+@PI/2),@IF(W28=3,@ATAN(M28/K28)+@PI,@AB
S(@ATAN(K28/M28))+3*@PI/2)))
A:Z28: (F3) [W1] '
A:AB28: (F3) [W1] '

A:AC28: (F3) @IF(Y28>2*@PI,Y28,Y28*180/@PI)

A:AD28: (F3) [W1] "

A:A29: {Page} 'E1

A:B29: [W1] "

A:C29: (F3) 233173.4144

A:D29: (F3) [W1] "

A:E29: (F3) 172013.406

A:F29: (F3) [W1] "

A:G29: (F3) +G27+I28

A:H29: (F3) [W1] "

A:J29: (F3) [W1] "

A:L29: (F3) [W1] "

A:N29: (F3) [W1] "

A:P29: (F3) [W1] "

A:R29: (F3) [W1] "

A:T29: (F3) [W1] "

A:V29: (F3) [W1] "

A:X29: (F3) [W1] "

A:Z29: (F3) [W1] "

A:AB29: (F3) [W1] "

A:AD29: (F3) [W1] "

A:B30: [W1] "

A:D30: (F3) [W1] "

A:F30: (F3) [W1] "

A:H30: (F3) [W1] "

A:I30: (F3) [W14] (((@COS((198*@PI/180)-(AC30*@PI/180)))*0.013976)*Q30

A:J30: (F3) [W1] "

A:K30: (F3) +C31-C29

A:L30: (F3) [W1] "

A:M30: (F3) +E31-E29

A:N30: (F3) [W1] "

A:O30: (F3) +G31-G29

A:P30: (F3) [W1] "

A:Q30: (F3) @SQRT((K30*K30)+(M30*M30))

A:R30: (F3) [W1] "

A:S30: (F3) @SQRT((O30*O30)+(Q30*Q30))

A:T30: (F3) [W1] "

A:U30: (F3) 100*(O30/Q30)

A:V30: (F3) [W1] "

A:W30: (F0)

@IF(K30=0#OR#M30=0,@IF(M30=0,@IF(K30<0,30,10),@IF(M30<0,40,20)),@IF(K30>0,@I
F(M30>0,1,4),@IF(M30>0,2,3)))

A:X30: (F3) [W1] '
A:Y30: (F3)
@IF(W30=10#OR#W30=20#OR#W30=30#OR#W30=40,@IF(W30=10#OR#W30=30,@IF(W30=10,0,180),@IF(W30=20,90,270)),@IF(W30=1#OR#W30=2,@IF(W30=1,@ABS(@ATAN(M30/K30)),@ABS(@ATAN(K30/M30))+@PI/2),@IF(W30=3,@ATAN(M30/K30)+@PI,@ABS(@ATAN(K30/M30))+3*@PI/2)))
A:Z30: (F3) [W1] '
A:AB30: (F3) [W1] '
A:AC30: (F3) @IF(Y30>2*@PI,Y30,Y30*180/@PI)
A:AD30: (F3) [W1] '
A:A31: {Page} 'E2
A:B31: [W1] '
A:C31: (F3) 233349.0351
A:D31: (F3) [W1] '
A:E31: (F3) 172262.7699
A:F31: (F3) [W1] '
A:G31: (F3) +G29+I30
A:H31: (F3) [W1] '
A:J31: (F3) [W1] '
A:L31: (F3) [W1] '
A:N31: (F3) [W1] '
A:P31: (F3) [W1] '
A:R31: (F3) [W1] '
A:T31: (F3) [W1] '
A:V31: (F3) [W1] '
A:X31: (F3) [W1] '
A:Z31: (F3) [W1] '
A:AB31: (F3) [W1] '
A:AD31: (F3) [W1] '
A:B32: [W1] '
A:D32: (F3) [W1] '
A:F32: (F3) [W1] '
A:H32: (F3) [W1] '
A:I32: (F3) [W14] (((@COS((198*@PI/180)-(AC32*@PI/180)))*0.013976)*Q32
A:J32: (F3) [W1] '
A:K32: (F3) +C33-C31
A:L32: (F3) [W1] '
A:M32: (F3) +E33-E31
A:N32: (F3) [W1] '
A:O32: (F3) +G33-G31
A:P32: (F3) [W1] '
A:Q32: (F3) @SQRT((K32*K32)+(M32*M32))

A:R32: (F3) [W1] '
A:S32: (F3) @SQRT((O32*O32)+(Q32*Q32))
A:T32: (F3) [W1] '
A:U32: (F3) 100*(O32/Q32)
A:V32: (F3) [W1] '
A:W32: (F0)
@IF(K32=0#OR#M32=0,@IF(M32=0,@IF(K32<0,30,10),@IF(M32<0,40,20)),@IF(K32>0,@I
F(M32>0,1,4),@IF(M32>0,2,3)))
A:X32: (F3) [W1] '
A:Y32: (F3)
@IF(W32=10#OR#W32=20#OR#W32=30#OR#W32=40,@IF(W32=10#OR#W32=30,@IF(W3
2=10,0,180),@IF(W32=20,90,270)),@IF(W32=1#OR#W32=2,@IF(W32=1,@ABS(@ATAN(
M32/K32)),@ABS(@ATAN(K32/M32))+@PI/2),@IF(W32=3,@ATAN(M32/K32)+@PI,@AB
S(@ATAN(K32/M32))+3*@PI/2)))
A:Z32: (F3) [W1] '
A:AB32: (F3) [W1] '
A:AC32: (F3) @IF(Y32>2*@PI,Y32,Y32*180/@PI)
A:AD32: (F3) [W1] '
A:A33: {Page} 'C9
A:B33: [W1] '
A:C33: (F3) 234075.935
A:D33: (F3) [W1] '
A:E33: (F3) 171750.8326
A:F33: (F3) [W1] '
A:G33: (F3) +G31+I32
A:H33: (F3) [W1] '
A:J33: (F3) [W1] '
A:L33: (F3) [W1] '
A:N33: (F3) [W1] '
A:P33: (F3) [W1] '
A:R33: (F3) [W1] '
A:T33: (F3) [W1] '
A:V33: (F3) [W1] '
A:X33: (F3) [W1] '
A:Z33: (F3) [W1] '
A:AB33: (F3) [W1] '
A:AD33: (F3) [W1] '
A:B34: [W1] '
A:D34: (F3) [W1] '
A:F34: (F3) [W1] '
A:H34: (F3) [W1] '
A:I34: (F3) [W14] ((@COS((198*@PI/180)-(AC34*@PI/180)))*0.013976)*Q34

A:J34: (F3) [W1] '|
A:K34: (F3) +C35-C33
A:L34: (F3) [W1] '|
A:M34: (F3) +E35-E33
A:N34: (F3) [W1] '|
A:O34: (F3) +G35-G33
A:P34: (F3) [W1] '|
A:Q34: (F3) @SQRT((K34*K34)+(M34*M34))
A:R34: (F3) [W1] '|
A:S34: (F3) @SQRT((O34*O34)+(Q34*Q34))
A:T34: (F3) [W1] '|
A:U34: (F3) 100*(O34/Q34)
A:V34: (F3) [W1] '|
A:W34: (F0)
@IF(K34=0#OR#M34=0,@IF(M34=0,@IF(K34<0,30,10),@IF(M34<0,40,20)),@IF(K34>0,@I
F(M34>0,1,4),@IF(M34>0,2,3)))
A:X34: (F3) [W1] '|
A:Y34: (F3)
@IF(W34=10#OR#W34=20#OR#W34=30#OR#W34=40,@IF(W34=10#OR#W34=30,@IF(W3
4=10,0,180),@IF(W34=20,90,270)),@IF(W34=1#OR#W34=2,@IF(W34=1,@ABS(@ATAN(
M34/K34)),@ABS(@ATAN(K34/M34))+@PI/2),@IF(W34=3,@ATAN(M34/K34)+@PI,@AB
S(@ATAN(K34/M34))+3*@PI/2)))
A:Z34: (F3) [W1] '|
A:AB34: (F3) [W1] '|
A:AC34: (F3) @IF(Y34>2*@PI,Y34,Y34*180/@PI)
A:AD34: (F3) [W1] '|
A:A35: {Page} 'D0
A:B35: [W1] '|
A:C35: (F3) 234009.662
A:D35: (F3) [W1] '|
A:E35: (F3) 171656.7317
A:F35: (F3) [W1] '|
A:G35: (F3) +G33+I34
A:H35: (F3) [W1] '|
A:I35: (F3) [W1] '|
A:L35: (F3) [W1] '|
A:N35: (F3) [W1] '|
A:P35: (F3) [W1] '|
A:R35: (F3) [W1] '|
A:T35: (F3) [W1] '|
A:V35: (F3) [W1] '|
A:X35: (F3) [W1] '|

A:Z35: (F3) [W1] '
A:AB35: (F3) [W1] '
A:AD35: (F3) [W1] '
A:B36: [W1] '
A:D36: (F3) [W1] '
A:F36: (F3) [W1] '
A:H36: (F3) [W1] '
A:I36: (F3) [W14] (((@COS((198*@PI/180)-(AC36*@PI/180)))*0.013976)*Q36
A:J36: (F3) [W1] '
A:K36: (F3) +C37-C35
A:L36: (F3) [W1] '
A:M36: (F3) +E37-E35
A:N36: (F3) [W1] '
A:O36: (F3) +G37-G35
A:P36: (F3) [W1] '
A:Q36: (F3) @SQRT((K36*K36)+(M36*M36))
A:R36: (F3) [W1] '
A:S36: (F3) @SQRT((O36*O36)+(Q36*Q36))
A:T36: (F3) [W1] '
A:U36: (F3) 100*(O36/Q36)
A:V36: (F3) [W1] '
A:W36: (F0)
@IF(K36=0#OR#M36=0,@IF(M36=0,@IF(K36<0,30,10),@IF(M36<0,40,20)),@IF(K36>0,@I
F(M36>0,1,4),@IF(M36>0,2,3)))
A:X36: (F3) [W1] '
A:Y36: (F3)
@IF(W36=10#OR#W36=20#OR#W36=30#OR#W36=40,@IF(W36=10#OR#W36=30,@IF(W3
6=10,0,180),@IF(W36=20,90,270)),@IF(W36=1#OR#W36=2,@IF(W36=1,@ABS(@ATAN(
M36/K36)),@ABS(@ATAN(K36/M36))+@PI/2),@IF(W36=3,@ATAN(M36/K36)+@PI,@AB
S(@ATAN(K36/M36))+3*@PI/2)))
A:Z36: (F3) [W1] '
A:AB36: (F3) [W1] '
A:AC36: (F3) @IF(Y36>2*@PI,Y36,Y36*180/@PI)
A:AD36: (F3) [W1] '
A:A37: {Page} 'D1
A:B37: [W1] '
A:C37: (F3) 233760.2981
A:D37: (F3) [W1] '
A:E37: (F3) 171832.3525
A:F37: (F3) [W1] '
A:G37: (F3) +G35+I36
A:H37: (F3) [W1] '

A:J37: (F3) [W1] '
A:L37: (F3) [W1] '
A:N37: (F3) [W1] '
A:P37: (F3) [W1] '
A:R37: (F3) [W1] '
A:T37: (F3) [W1] '
A:V37: (F3) [W1] '
A:X37: (F3) [W1] '
A:Z37: (F3) [W1] '
A:AB37: (F3) [W1] '
A:AD37: (F3) [W1] '
A:B38: [W1] '
A:D38: (F3) [W1] '
A:F38: (F3) [W1] '
A:H38: (F3) [W1] '
A:I38: (F3) [W14] ((@COS((198*@PI/180)-(AC38*@PI/180)))*0.013976)*Q38
A:J38: (F3) [W1] '
A:K38: (F3) +C39-C37
A:L38: (F3) [W1] '
A:M38: (F3) +E39-E37
A:N38: (F3) [W1] '
A:O38: (F3) +G39-G37
A:P38: (F3) [W1] '
A:Q38: (F3) @SQRT((K38*K38)+(M38*M38))
A:R38: (F3) [W1] '
A:S38: (F3) @SQRT((O38*O38)+(Q38*Q38))
A:T38: (F3) [W1] '
A:U38: (F3) 100*(O38/Q38)
A:V38: (F3) [W1] '
A:W38: (F0)
@IF(K38=0#OR#M38=0,@IF(M38=0,@IF(K38<0,30,10),@IF(M38<0,40,20)),@IF(K38>0,@I
F(M38>0,1,4),@IF(M38>0,2,3)))
A:X38: (F3) [W1] '
A:Y38: (F3)
@IF(W38=10#OR#W38=20#OR#W38=30#OR#W38=40,@IF(W38=10#OR#W38=30,@IF(W3
8=10,0,180),@IF(W38=20,90,270)),@IF(W38=1#OR#W38=2,@IF(W38=1,@ABS(@ATAN(
M38/K38)),@ABS(@ATAN(K38/M38))+@PI/2),@IF(W38=3,@ATAN(M38/K38)+@PI,@AB
S(@ATAN(K38/M38))+3*@PI/2)))
A:Z38: (F3) [W1] '
A:AB38: (F3) [W1] '
A:AC38: (F3) @IF(Y38>2*@PI,Y38,Y38*180/@PI)
A:AD38: (F3) [W1] '

A:A39: {Page} 'D2
 A:B39: [W1] '
 A:C39: (F3) 233776.2607
 A:D39: (F3) [W1] '
 A:E39: (F3) 171527.7705
 A:F39: (F3) [W1] '
 A:G39: (F3) +G37+J38
 A:H39: (F3) [W1] '
 A:J39: (F3) [W1] '
 A:L39: (F3) [W1] '
 A:N39: (F3) [W1] '
 A:P39: (F3) [W1] '
 A:R39: (F3) [W1] '
 A:T39: (F3) [W1] '
 A:V39: (F3) [W1] '
 A:X39: (F3) [W1] '
 A:Z39: (F3) [W1] '
 A:AB39: (F3) [W1] '
 A:AD39: (F3) [W1] '
 A:B40: [W1] '
 A:D40: (F3) [W1] '
 A:F40: (F3) [W1] '
 A:H40: (F3) [W1] '
 A:I40: (F3) [W14] (((@COS((198*@PI/180)-(AC40*@PI/180)))*0.013976)*Q40
 A:J40: (F3) [W1] '
 A:K40: (F3) +C41-C39
 A:L40: (F3) [W1] '
 A:M40: (F3) +E41-E39
 A:N40: (F3) [W1] '
 A:O40: (F3) +G41-G39
 A:P40: (F3) [W1] '
 A:Q40: (F3) @SQRT((K40*K40)+(M40*M40))
 A:R40: (F3) [W1] '
 A:S40: (F3) @SQRT((O40*O40)+(Q40*Q40))
 A:T40: (F3) [W1] '
 A:U40: (F3) 100*(O40/Q40)
 A:V40: (F3) [W1] '
 A:W40: (F0)
 @IF(K40=0#OR#M40=0,@IF(M40=0,@IF(K40<0,30,10),@IF(M40<0,40,20)),@IF(K40>0,@I
 F(M40>0,1,4),@IF(M40>0,2,3)))
 A:X40: (F3) [W1] '
 A:Y40: (F3)

@IF(W40=10#OR#W40=20#OR#W40=30#OR#W40=40,@IF(W40=10#OR#W40=30,@IF(W40=10,0,180),@IF(W40=20,90,270)),@IF(W40=1#OR#W40=2,@IF(W40=1,@ABS(@ATAN(M40/K40)),@ABS(@ATAN(K40/M40))+@PI/2),@IF(W40=3,@ATAN(M40/K40)+@PI,@ABS(@ATAN(K40/M40))+3*@PI/2)))

A:Z40: (F3) [W1] "

A:AB40: (F3) [W1] "

A:AC40: (F3) @IF(Y40>2*@PI,Y40,Y40*180/@PI)

A:AD40: (F3) [W1] "

A:A41: {Page} 'H4

A:B41: [W1] "

A:C41: (F3) 233733.9616

A:D41: (F3) [W1] "

A:E41: (F3) 171525.5555

A:F41: (F3) [W1] "

A:G41: (F3) +G39+I40

A:H41: (F3) [W1] "

A:J41: (F3) [W1] "

A:L41: (F3) [W1] "

A:N41: (F3) [W1] "

A:P41: (F3) [W1] "

A:R41: (F3) [W1] "

A:T41: (F3) [W1] "

A:V41: (F3) [W1] "

A:X41: (F3) [W1] "

A:Z41: (F3) [W1] "

A:AB41: (F3) [W1] "

A:AD41: (F3) [W1] "

A:B42: [W1] "

A:D42: (F3) [W1] "

A:F42: (F3) [W1] "

A:H42: (F3) [W1] "

A:I42: (F3) [W14] (((@COS((198*@PI/180)-(AC42*@PI/180)))*0.013976)*Q42

A:J42: (F3) [W1] "

A:K42: (F3) +C43-C41

A:L42: (F3) [W1] "

A:M42: (F3) +E43-E41

A:N42: (F3) [W1] "

A:O42: (F3) +G43-G41

A:P42: (F3) [W1] "

A:Q42: (F3) @SQRT((K42*K42)+(M42*M42))

A:R42: (F3) [W1] "

A:S42: (F3) @SQRT((O42*O42)+(Q42*Q42))

A:T42: (F3) [W1] '
A:U42: (F3) 100*(O42/Q42)
A:V42: (F3) [W1] '
A:W42: (F0)
@IF(K42=0#OR#M42=0,@IF(M42=0,@IF(K42<0,30,10),@IF(M42<0,40,20)),@IF(K42>0,@I
F(M42>0,1,4),@IF(M42>0,2,3)))
A:X42: (F3) [W1] '
A:Y42: (F3)
@IF(W42=10#OR#W42=20#OR#W42=30#OR#W42=40,@IF(W42=10#OR#W42=30,@IF(W4
2=10,0,180),@IF(W42=20,90,270)),@IF(W42=1#OR#W42=2,@IF(W42=1,@ABS(@ATAN(
M42/K42)),@ABS(@ATAN(K42/M42))+@PI/2),@IF(W42=3,@ATAN(M42/K42)+@PI,@AB
S(@ATAN(K42/M42))+3*@PI/2)))
A:Z42: (F3) [W1] '
A:AB42: (F3) [W1] '
A:AC42: (F3) @IF(Y42>2*@PI,Y42,Y42*180/@PI)
A:AD42: (F3) [W1] '
A:A43: {Page} 'H3
A:B43: [W1] '
A:C43: (F3) 233732.6526
A:D43: (F3) [W1] '
A:E43: (F3) 171550.5212
A:F43: (F3) [W1] '
A:G43: (F3) +G41+I42
A:H43: (F3) [W1] '
A:J43: (F3) [W1] '
A:L43: (F3) [W1] '
A:N43: (F3) [W1] '
A:P43: (F3) [W1] '
A:R43: (F3) [W1] '
A:T43: (F3) [W1] '
A:V43: (F3) [W1] '
A:X43: (F3) [W1] '
A:Z43: (F3) [W1] '
A:AB43: (F3) [W1] '
A:AD43: (F3) [W1] '
A:B44: [W1] '
A:D44: (F3) [W1] '
A:F44: (F3) [W1] '
A:H44: (F3) [W1] '
A:I44: (F3) [W14] ((@COS((198*@PI/180)-(AC44*@PI/180)))*0.013976)*Q44
A:J44: (F3) [W1] '
A:K44: (F3) +C45-C43

A:L44: (F3) [W1] '
A:M44: (F3) +E45-E43
A:N44: (F3) [W1] '
A:O44: (F3) +G45-G43
A:P44: (F3) [W1] '
A:Q44: (F3) @SQRT((K44*K44)+(M44*M44))
A:R44: (F3) [W1] '
A:S44: (F3) @SQRT((O44*O44)+(Q44*Q44))
A:T44: (F3) [W1] '
A:U44: (F3) 100*(O44/Q44)
A:V44: (F3) [W1] '
A:W44: (F0)
@IF(K44=0#OR#M44=0,@IF(M44=0,@IF(K44<0,30,10),@IF(M44<0,40,20)),@IF(K44>0,@IF(M44>0,1,4),@IF(M44>0,2,3)))
A:X44: (F3) [W1] '
A:Y44: (F3)
@IF(W44=10#OR#W44=20#OR#W44=30#OR#W44=40,@IF(W44=10#OR#W44=30,@IF(W44=10,0,180),@IF(W44=20,90,270)),@IF(W44=1#OR#W44=2,@IF(W44=1,@ABS(@ATAN(M44/K44)),@ABS(@ATAN(K44/M44))+@PI/2),@IF(W44=3,@ATAN(M44/K44)+@PI,@ABS(@ATAN(K44/M44))+3*@PI/2)))
A:Z44: (F3) [W1] '
A:AB44: (F3) [W1] '
A:AC44: (F3) @IF(Y44>2*@PI,Y44,Y44*180/@PI)
A:AD44: (F3) [W1] '
A:A45: {Page} 'H2
A:B45: [W1] '
A:C45: (F3) 233708.8763
A:D45: (F3) [W1] '
A:E45: (F3) 171542.7954
A:F45: (F3) [W1] '
A:G45: (F3) +G43+I44
A:H45: (F3) [W1] '
A:J45: (F3) [W1] '
A:L45: (F3) [W1] '
A:N45: (F3) [W1] '
A:P45: (F3) [W1] '
A:R45: (F3) [W1] '
A:T45: (F3) [W1] '
A:V45: (F3) [W1] '
A:X45: (F3) [W1] '
A:Z45: (F3) [W1] '
A:AB45: (F3) [W1] '

A:AD45: (F3) [W1] '
A:B46: [W1] '
A:D46: (F3) [W1] '
A:F46: (F3) [W1] '
A:H46: (F3) [W1] '
A:I46: (F3) [W14] (((@COS((198*@PI/180)-(AC46*@PI/180)))*0.013976)*Q46
A:J46: (F3) [W1] '
A:K46: (F3) +C47-C45
A:L46: (F3) [W1] '
A:M46: (F3) +E47-E45
A:N46: (F3) [W1] '
A:O46: (F3) +G47-G45
A:P46: (F3) [W1] '
A:Q46: (F3) @SQRT((K46*K46)+(M46*M46))
A:R46: (F3) [W1] '
A:S46: (F3) @SQRT((O46*O46)+(Q46*Q46))
A:T46: (F3) [W1] '
A:U46: (F3) 100*(O46/Q46)
A:V46: (F3) [W1] '
A:W46: (F0)
@IF(K46=0#OR#M46=0,@IF(M46=0,@IF(K46<0,30,10),@IF(M46<0,40,20)),@IF(K46>0,@I
F(M46>0,1,4),@IF(M46>0,2,3)))
A:X46: (F3) [W1] '
A:Y46: (F3)
@IF(W46=10#OR#W46=20#OR#W46=30#OR#W46=40,@IF(W46=10#OR#W46=30,@IF(W4
6=10,0,180),@IF(W46=20,90,270)),@IF(W46=1#OR#W46=2,@IF(W46=1,@ABS(@ATAN(
M46/K46)),@ABS(@ATAN(K46/M46))+@PI/2),@IF(W46=3,@ATAN(M46/K46)+@PI,@AB
S(@ATAN(K46/M46))+3*@PI/2)))
A:Z46: (F3) [W1] '
A:AB46: (F3) [W1] '
A:AC46: (F3) @IF(Y46>2*@PI,Y46,Y46*180/@PI)
A:AD46: (F3) [W1] '
A:A47: {Page} 'H1 (CLOSE)
A:B47: [W1] '
A:C47: (F3) 233702.0073
A:D47: (F3) [W1] '
A:E47: (F3) 171563.9354
A:F47: (F3) [W1] '
A:G47: (F3) +G45+I46
A:H47: (F3) [W1] '
A:I47: (F3) [W1] '
A:L47: (F3) [W1] '

A:N47: (F3) [W1] "
A:P47: (F3) [W1] "
A:R47: (F3) [W1] "
A:T47: (F3) [W1] "
A:V47: (F3) [W1] "
A:X47: (F3) [W1] "
A:Z47: (F3) [W1] "
A:AB47: (F3) [W1] "
A:AD47: (F3) [W1] "